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U. S. DEPARTMENT OF THE INTERIOR  
PROTOTYPE OIL SHALE LEASING PROGRAM

OIL SHALE TRACT C-b  
DEVELOPMENT MONITORING REPORT #4

(November 1979 through May 1980)

Submitted to:

Mr. Peter A. Rutledge  
Area Oil Shale Supervisor  
Conservation District  
U. S. Geological Survey  
Grand Junction, Colorado

By:

CATHEDRAL BLUFFS SHALE OIL COMPANY  
TENNECO SHALE OIL COMPANY  
OCCIDENTAL OIL SHALE, INC., OPERATOR

July 15, 1980

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NEW YORK

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## INTRODUCTION

Regular environmental reporting for Oil Shale Tract C-b in the current phase called Development Monitoring consists of the following reports:

<u>REPORT</u>	<u>SUBMITTAL DATE</u>
Six-Month Data Reports	January 15 July 15
Annual Report	April

Development Monitoring was initiated in April, 1978. Development Monitoring (Data) Report #1 was submitted on January 15, 1979 containing data from April, 1978 through September, 1978. Development Monitoring Report #2 was submitted on July 15, 1979 containing data from October, 1978 through April, 1979; time series plots for this time period were submitted on August 15, 1979. Development Monitoring Report #3 was submitted January 15, 1980 containing data from May, 1979 through October, 1979; time series plots for this time period were submitted on February, 1980. This present report, Development Monitoring Report #4, contains data from November, 1979 through May, 1980. The time series plots for the present reporting period will be presented in a supplement to the Development Monitoring Report #4, expected to follow this report in approximately one month.

In order to maintain accuracy in the data base and reports, for errors that are found requiring corrections from previously reported data, the following actions have been taken:

- 1) Summary tables in this report and the C-b computerized data base reflect corrected data to the best of our knowledge.
- 2) Cross-reference tables to data corrections and data corrections from the preceeding data report appear in this report.
- 3) Cumulative correction cross-reference tables are included in this report and the data corrections will appear in the next data report.







## 1.0 PRE-EXPLORATION ENVIRONMENTAL RECONNAISSANCE SURVEYS

No environmental reconnaissance surveys have been conducted during the development period. The results of previous surveys are contained in Quarterly Data Reports #1 and #3 and are summarized in Summary Reports #1 and #2.

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## 2.1 Tract Photography

This section contains an explanation of work accomplished during the period of this report for:

### 2.1.1 Surface Program

### 2.1.2 Aerial Program

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Figure 2.1.1-1	Surface Photography	I-7
Table 2.1.1-1	Summer Landsat Overflights	I-8
Figure 2.1.1-2	CIR Photograph Stations	I-9

An attempt has been made to refer to all stations by their four-digit computer station codes. For additional information on these codes refer to Section 4.0.

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SURFACE  
PHOTOGRAPHY





## 2.1.1 Surface Program

### 2.1.1.1 Color

Approximately 365<sup>0</sup> horizontal pans at the 35 photo points shown on Figure 2.1.1-1 were taken on June 23, 24, 25, 1980 and are currently being developed as 35 mm color slides to be retained in a loose leaf notebook.

### 2.1.1.2 Color Infrared

Color infrared 35 mm photos using color film with a Wratten 12 filter have been taken in 1979 and 1980 on the schedule shown in Table 2.1.1-1. These dates correspond to the Landsat overflight dates shown on the same table. Stations are shown on Figure 2.1.1-2 corresponding to the springs and seeps locations in the vicinity of the Tract. One station designated WS05 is located near the confluence of East No-Name and West No-Name Gulches near the alluvial well site A5A. This site was chosen since it was located in the drainage from the Tract pond A/B discharge.

Mosaics have been developed and are reproduced first through a color print reduction and then copied with color xerox to show comparison early (June 20, 1979) and late (August 22, 1979) in the growing season. These mosaics are shown as Figures 2.1.1-3a thru 2.1.1-3h.

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# SURFACE PHOTOGRAPHY NETWORK

<sup>6</sup>P = Photo Map Station

Figure 2.1.1-1

Tract C-b  
 RIFLE • DENVER

COLORADO



TABLE 2.1.1-1

Summer Landsat Overflights

(Path 38, Row 32)

1979

June 2, 11, 20, 29  
July 8, 17, 26  
August 4, 13, 22, 31  
September 9, 18, 27

1980

June 5, 14, 23  
July 2, 11, 20, 29  
August 7, 16, 25  
September 3, 12, 21, 30

Springs and Seeps Color Infrared Photo Schedules

1979

June 20  
August 22

1980

June 5  
July 2  
August 7



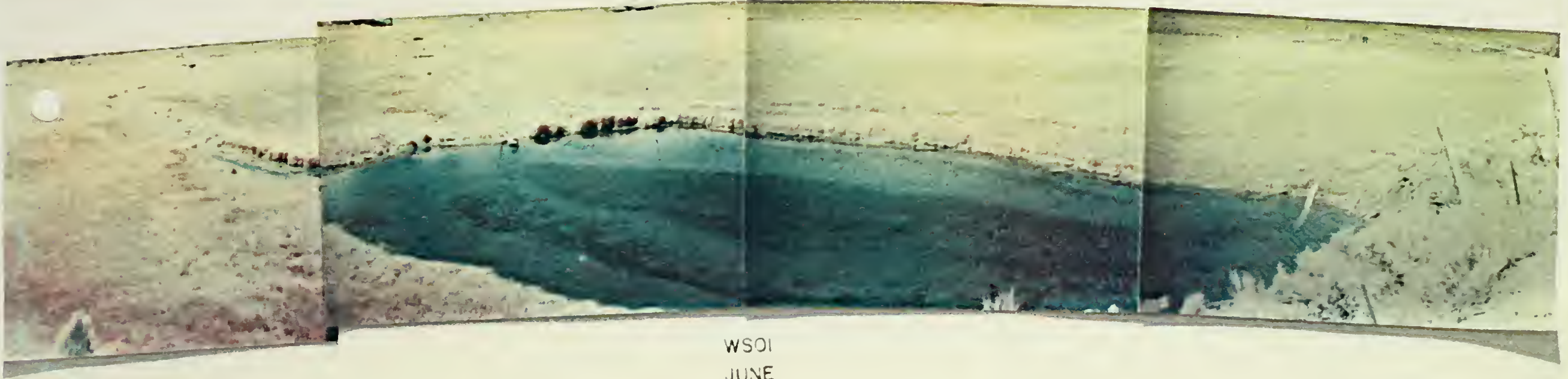


FIGURE 2.1.1-2  
CIR PHOTOGRAPH STATIONS

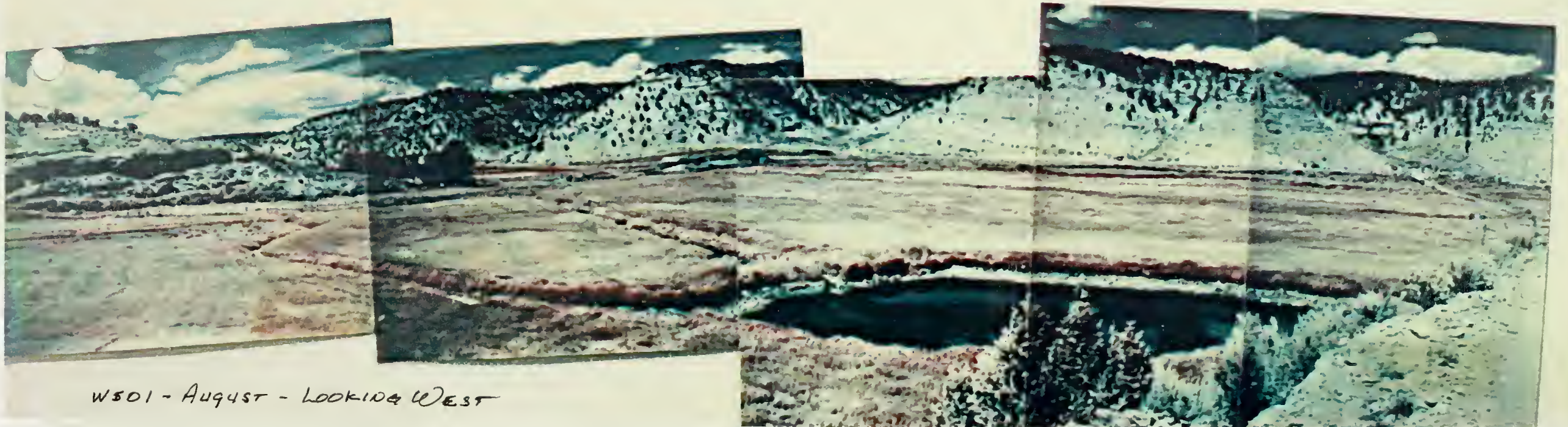
○ "GROUND TRUTH" SITES FOR  
COLOR INFRARED PHOTOGRAPHY



FOLLOWING ARE FIGURES 2.1.1-3a thru 2.1.1-3h  
Springs and Seeps ColorIR



WSOI  
JUNE



WSOI - AUGUST - LOOKING WEST







WS02  
JUNE



WS02 AUGUST









WS03

JUNE



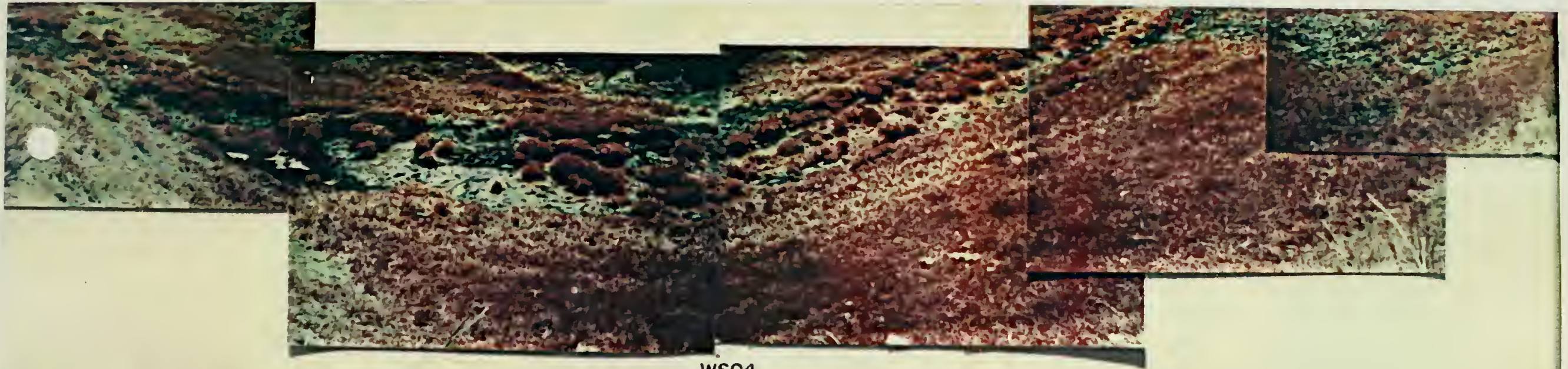
WS03

AUGUST

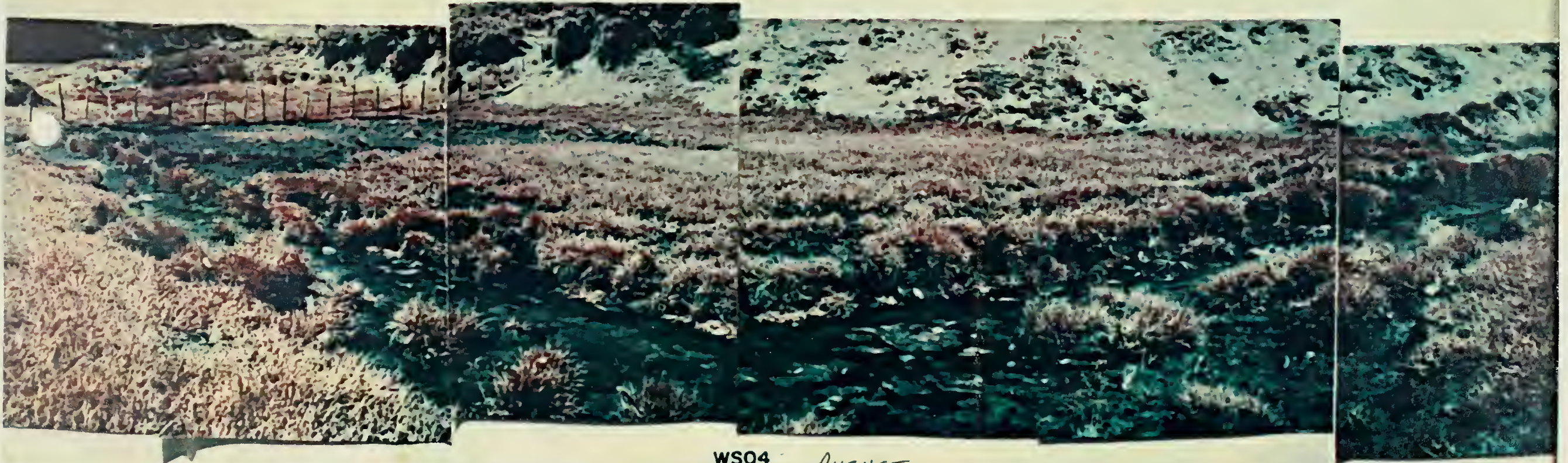








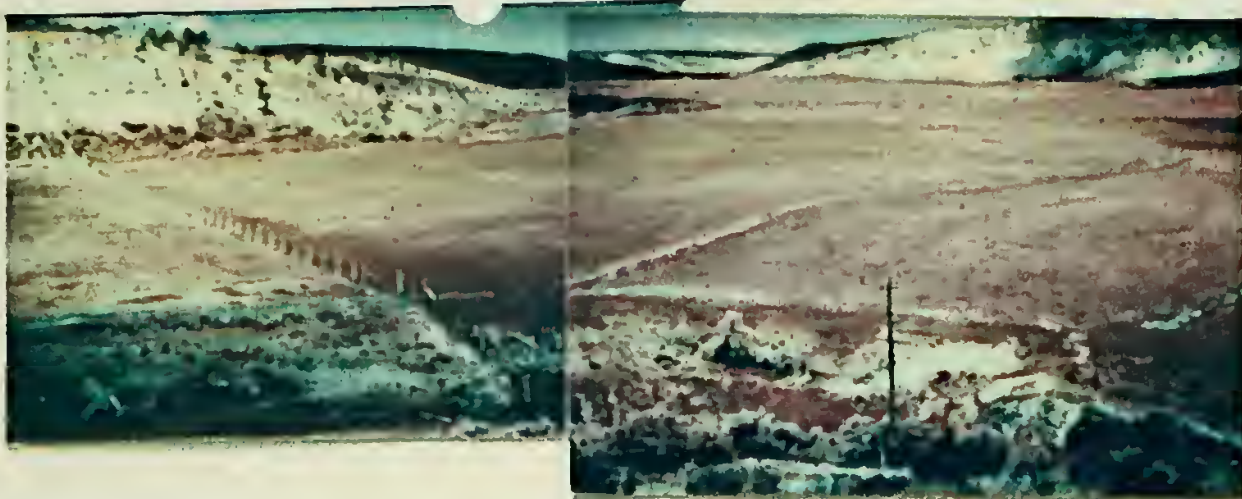
WS04  
JUNE



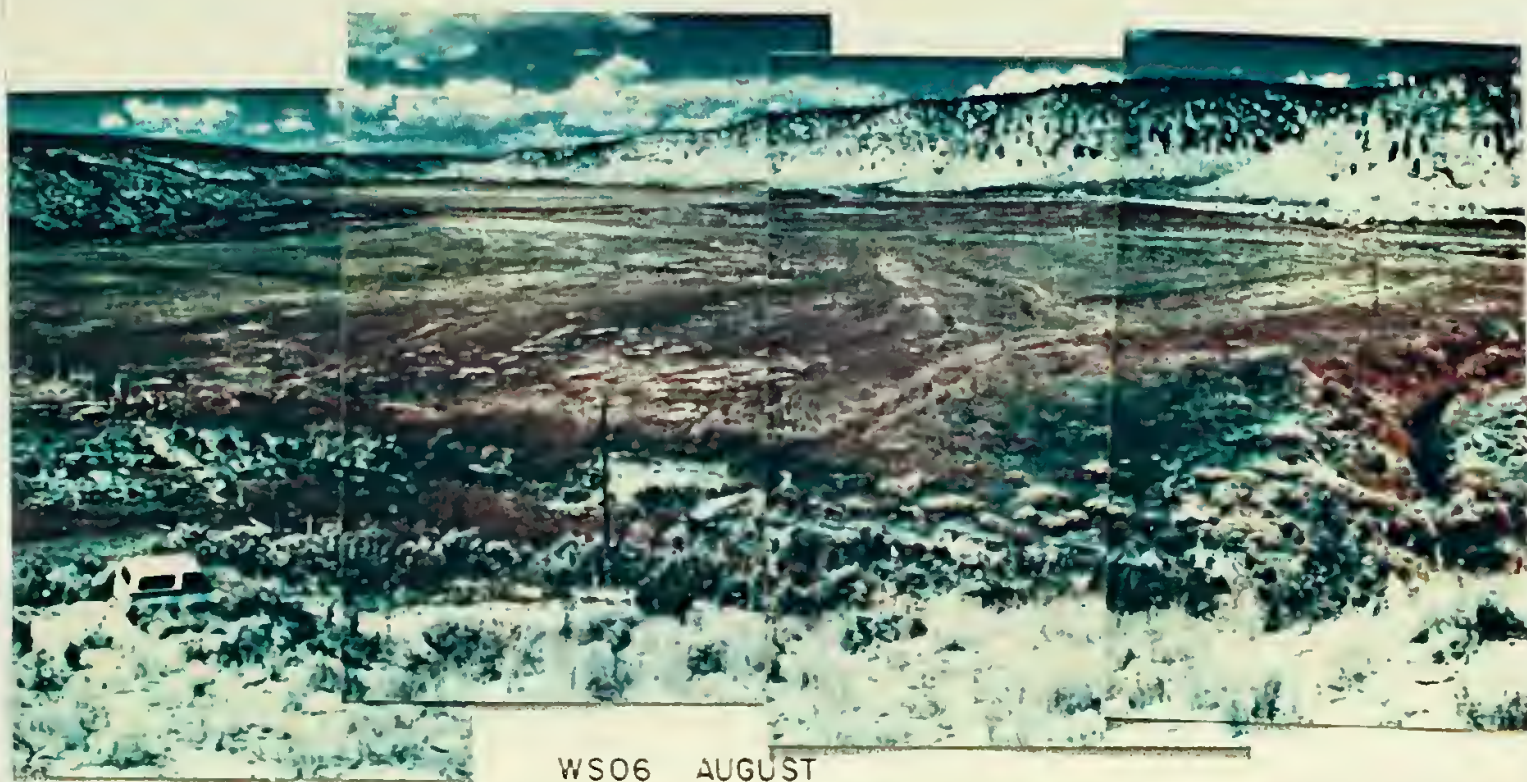
WS04 AUGUST







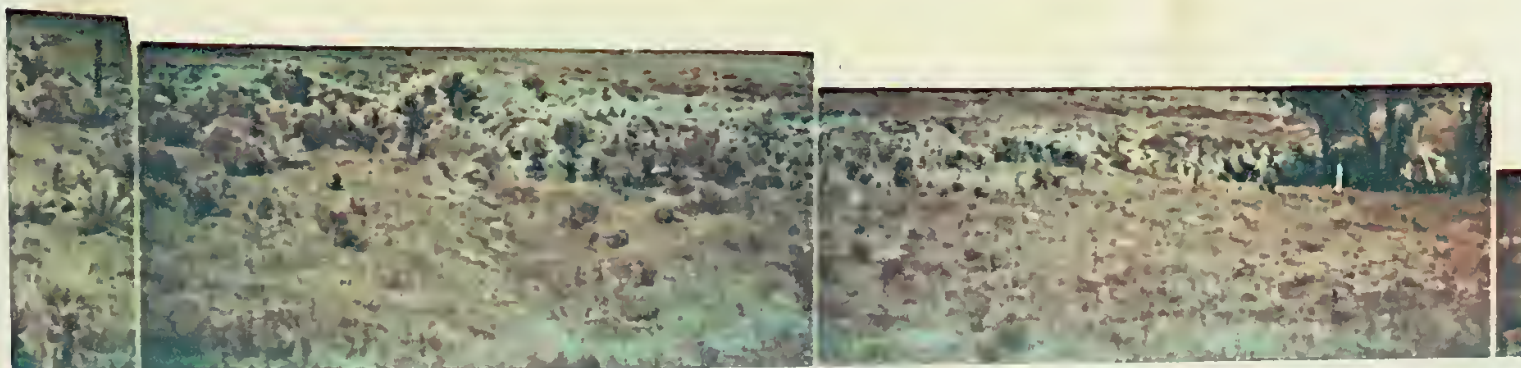
WS06 JUNE



WS06 AUGUST



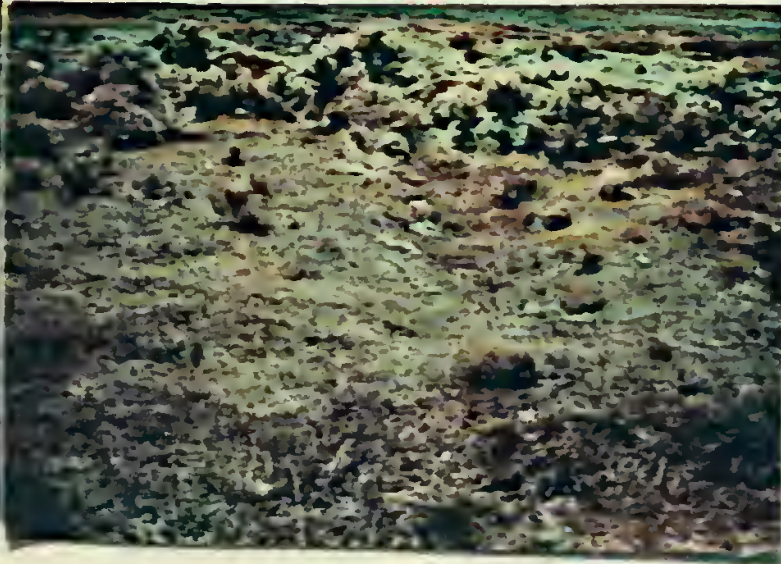
WS07 JUNE



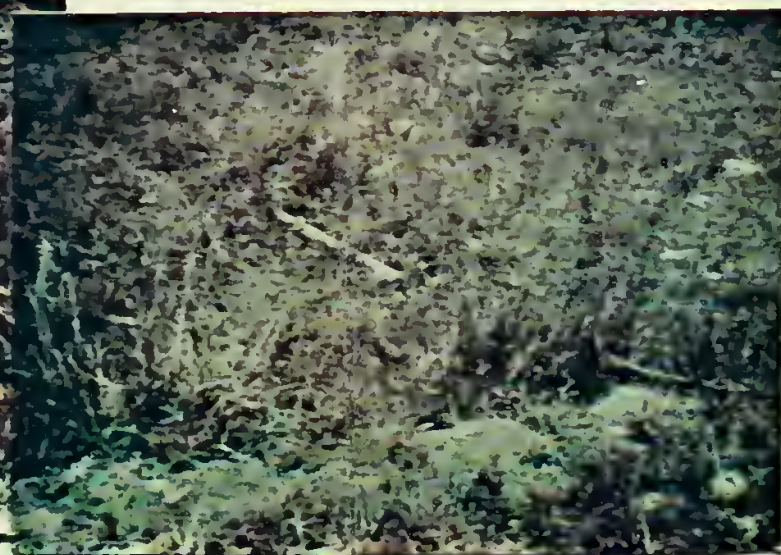








WS7A  
JUNE  
UPPER



WS7A - JUNE

WS7A

WS07A - AUGUST



WS07A









WSC8 AUGUST



WSC8  
JUNE

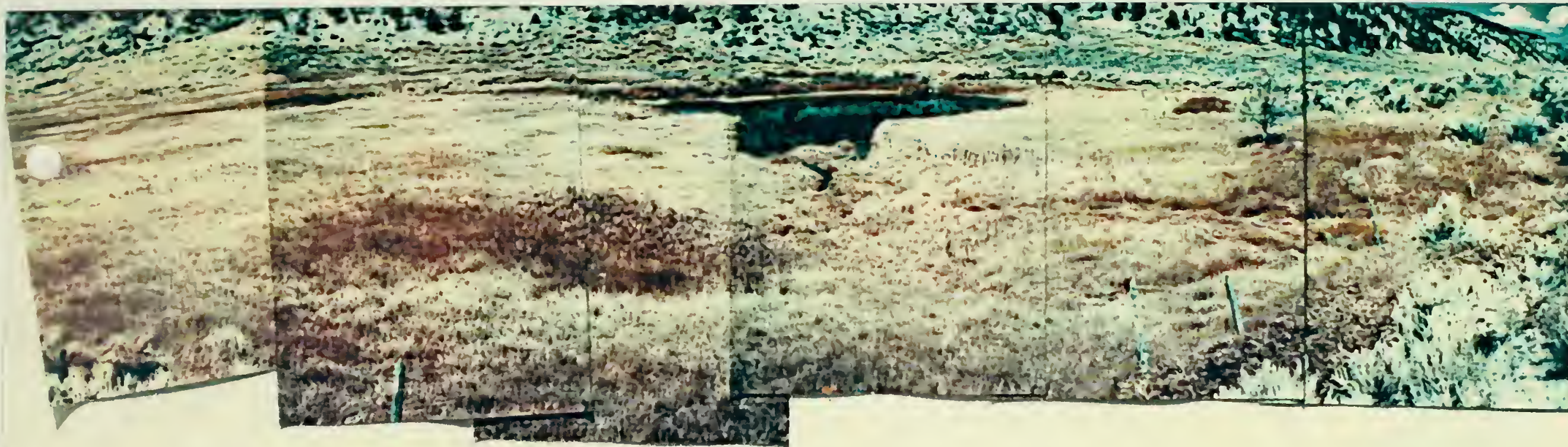


WSC9 - August

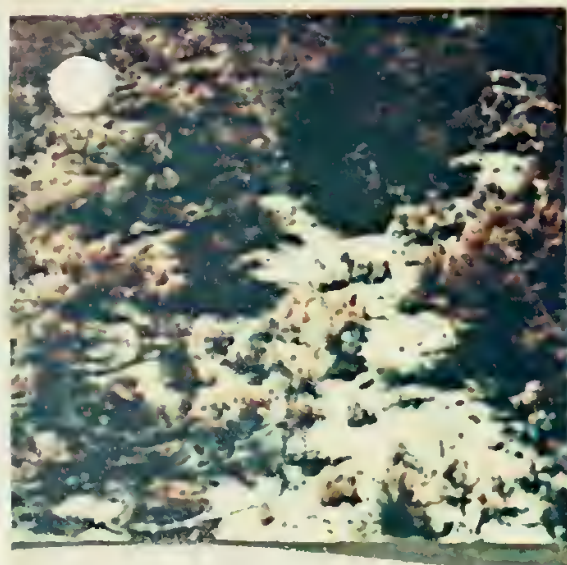








WS10  
AUGUST



WS05  
August







AERIAL  
PHOTOGRAPHY





## 2.1.2 Aerial Program

### 2.1.2.1 Landsat

Summer 1979 and 1980 overflight dates are shown on Table 2.1.1-1 for Path 38, Row 32, which covers the general Tract location.

Landsat results comparing June and August overflights in both 1977 and 1979 are summarized in the report, A Preliminary Study of Vegetation Change Detection Using Landsat MSS Vegetation Indices by J. Grunblatt and Dr. E. L. Maxwell dated May, 1980 and contained in this document in the Special Reports section.

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## 2.2 HYDROLOGY AND WATER QUALITY

Hydrologic and water quality monitoring frequency and laboratory analysis requirements vary by type and location of sample collection station. The requirements also vary between government agencies and purposes of monitoring. Tract C-b monitoring requirements have been detailed in these documents as follows:

- DMP - Development Monitoring Plan prepared for the Area Oil Shale Supervisor's Office (AOSO).
- WAP - Water Augmentation Plan prepared for the State of Colorado Water Court, Division 5.
- NPDES - National Pollutant Discharge Elimination System monthly report prepared for the State of Colorado Water Quality Control Division.

Data presented in previous reports have been collected under the DMP requirements. This data report has been extended to include additional requirements of the WAP and NPDES. Exhibits A and B of the WAP, presented in jacket Figures 2.2-1 and 2.2-2 provide a complete list and location of the WAP sampling sites. Station coordinates and four-digit computer codes for current collection stations are presented in Section 4.0 Data Automation.

A summary of current and future water sampling frequency requirements by parameter and station type is presented in Tables 2.2-1a thru 2.2-1g. Footnotes are used to identify special requirements. Table 2.2-2 contains an index to special data requirements and to supplemental water data.

WATER SAMPLING FREQUENCY REQUIREMENTS  
MAJOR USGS GAUGING STATIONS\*

PARAMETERS	SYMBOL	SEMI-					
		DAILY	WEEKLY	MONTHLY	QUARTERLY	ANNUALLY	ANNUALLY
Alkalinity	CaCO <sub>3</sub>			●			
NO <sub>3</sub> Alkalinity	NA						
P Alkalinity	PA						
Aluminum	Al				●		
Ammonia	as NH <sub>3</sub>			●			
Arsenic	As			●			
Bacteria	SD						
Barium	Ba				●		
Beryllium	Be						
Bicarbonate	HCO <sub>3</sub>			●			
Biological Oxygen Demand	BOD				●		
Bismuth	Bi						
Boron	B			●			
Bromine	Br				●		
Cadmium	Cd				●		
Calcium	Ca			●			
Carbonate	CO <sub>3</sub>			●			
Chemical Oxygen Demand	COD				●		
Chloride	Cl			●			
Chromium	Cr				●		
Cobalt	Co				●		
Coliform, Fecal					●		
Coliform, Total					●		
Color (Not Precise)					●		
Cond. Hydrocarbon	CH						
Conductivity, Specific	SPC	●					
Copper	Cu				●		
Cyanide	CN				●		
Dissolved Oxygen	DO				●		
Element Scar					●		
Fecal Streptococcus					●		
Flow		●					
Fluoride	F			●			
Gallium	Ga						
Germanium	Ge						
Hardness (Ca, Mg)	DU						
Hexachlorides							
Iodine	I						
Iron	Fe			●			
Kjeldahl Nitrogen				●			
Lead	Pb				●		
Level					●		
Lithium	Li				●		
Magnesium	Mg			●			
Manganese	Mn			●			
Mercury	Hg				●		
Methylene Blue Active Substance	MBAS					●	
Polychlorine	PC				●		
Radical	RA			●			
Nitrate	NO <sub>3</sub>			●			
Nitrite	NO <sub>2</sub>			●			
ODOR					●		
Oil & Grease	OLG			●			
Organic Carbon, Dissolved	DOC			●			
Organic Carbon, Total	TOC			●			
Ortho-Phosphorus (Phosphate)	PO <sub>4</sub>				●		
Estrogen						●	
pH	pH	●					
Phenols	PHN			●			
Phosphate	PH <sub>4</sub>			●			
Potassium	K			●			
Rubidium	Rb						
Sediment Characterization					●		
Selenium	Se						
Scandium	Sc			●			
Silica	SiO <sub>2</sub>			●			
Silver	Ag			●			
Sodium	Na			●			
Solids, Dissolved	SOLDS				●		
Solids, Suspended	SOLDS				●		
Strontium	Sr						
Surfactants				●			
Sulfate	SO <sub>4</sub>			●			
Sulfide	SO <sub>2</sub>	●			●		
Temperature (OC)							
Thiosulfate	SpO <sub>3</sub>						
Tin	Ti						
Titanium	Ti						
Tungsten	W						
Turbidity	T	▶					
Vanadium	V						
Zinc	Zn				●		
Zirconium	Zr						
Radioactivity					●		
Gross Alpha (pCi)					●		
Radium 226	Ra226						
Natural Uranium					●		
Gross Beta					●		
Cesium	Cs137						
Sr90							
Thorium 230	Th230						
Uranium							
Fractionation of							
Organic Carbon into							
a. Hydrophobic Bases						●	
b. Hydrophobic Acids						●	
c. Hydrophobic Neutrals						●	
d. Hydrophilic Bases						●	
e. Hydrophilic Acids						●	
f. Hydrophilic Neutrals						●	

\* DMP and WAP stations WU07, WU22, WU56, WU61.

SYMBOLS

- Applies to all stations (DMP and WAP).
- ▶ Applies to stations WU07 and WU61 only.

PARAMETERS	SYMBOL	DAILY	WEEKLY	MONTHLY	QUARTERLY	EMI-ANNUALLY	ANNUALLY
Alkalinity	CaCO <sub>3</sub>				●		
Ammonia	MA				●		
Alkalinity	PA				●		
Aluminum	Al				●		
Antimony	as Hg				●		
Arsenic	As				●		
Bacteria	SB				●		
Barium	Ba				●		
Beryllium	Be				●		
Bicarbonate	HCO <sub>3</sub>				●		
Biological Oxygen Demand	BOD				●		
Bismuth	Bi				●		
Boron	B				●		
Bromine	Br				●		
Cadmium	Cd				●		
Calcium	Ca				●		
Carbonate	CO <sub>3</sub>				●		
Chemical Oxygen Demand	COD				●		
Chloride	Cl				●		
Chromium	Cr				●		
Cobalt	Co				●		
Coliform, Fecal					●		
Coliform, Total					●		
Color (Not Precise)					●		
Cond. Hydrocarbon	CH				●		
Conductivity, Specific	SC				●		
Copper	Cu				●		
Cyanide	Cn				●		
Dissolved Oxygen	DO				●		
Element Scan					●		
Fecal Streptococcus					●		
Fluoride	F				●		
Gallium	Ga				●		
Germanium	Ge				●		
Hardness (Ca, Mg)					●		
Hydroxides	OH				●		
Iodine	I				●		
Iron	Fe				●		
Ketohal Nitrogen					●		
Lead	Pb				●		
Level					●		
Lithium	Li				●		
Magnesium	Mg				●		
Manganese	Mn				●		
Mercury	Hg				●		
Methylene Blue Active Substance	MBAS				●		
Molybdenum	Mo				●		
Nickel	Ni				●		
Nitrate	NO <sub>3</sub>				●		
Nitrite	NO <sub>2</sub>				●		
Oil					●		
Oil & Grease	ULGM				●		
Organic Carbon, Dissolved	DOC				●		
Organic Carbon, Total	TOC				●		
Ortho-Phosphorus (Phosphate)	PO <sub>4</sub>				●		
Pesticides					●		
pH	ph				●		
Phenols					●		
PMA	PMA				●		
Potassium	K				●		
Rubidium	Rb				●		
Sediment Characterization					●		▶
Selenium	Se				●		
Scandium	Sc				●		
Silica	SiO <sub>2</sub>				●		
Silver	Ag				●		
Sodium	Na				●		
Solids, Dissolved	TDS				●		
Solids, Suspended	SOLS				●		
Strontium	Sr				●		
Surfactants					●		
Sulfate	SO <sub>4</sub>				●		
Sulfide	SO <sub>2</sub>				●		
Temperature (°C)					●		
Thiosulfate	S <sub>2</sub> O <sub>3</sub>				●		
Tin	Sn				●		
Titanium	Ti				●		
Tungsten	W				●		
Turbidity					●		
Vanadium	V				●		
Yttrium	Y				●		
Zinc	Zn				●		
Zirconium	Zr				●		
Radioactivity					●		
Gross Alpha (pCi)					●		
Radium 226	Ra226				●		
Natural Uranium	U				●		
Gross Beta					●		
Cesium	Ce137				●		
Sr90					●		
Thorium 230	TH230				●		
Uranium	U				●		
Fractionation of Organic Carbon into							
a. Hydrophobic Bases							
b. Hydrophobic Acids							
c. Hydrophobic Neutrals							
d. Hydrophilic Bases							
e. Hydrophilic Acids							
f. Hydrophilic Neutrals							

\* DMP stations WU15, WU25, WU28, WU33, WU36, WU39, WU42, WU50, WU52. WAP stations are all DMP stations + stations 4800, 6200, 6222, 6225.

#### SYMBOLS

- Applies to all stations (DMP and WAP).
- ▶ Applies to station WU42 only.



WATER SAMPLING FREQUENCY REQUIREMENTS  
SPRINGS AND SHEEP STATIONS\*

PARAMETERS	SYMBOL	DAILY	WEEKLY	MONTHLY	QUARTERLY	SEMI-ANNUALLY	ANNUALLY
Alkalinity	CaCO <sub>3</sub>				●		●
Ammonia	ME				●		
Alkalinity	PA				●		
Aluminum	Al				●		
Antimony	as Hg				●		
Arsenic	As				●		
Bacteria	SE				●		
Barium	Ba				●		
Beryllium	Be				●		
Bicarbonate	HCO <sub>3</sub>				●		
Biological Oxygen Demand	BOD				●		
Bismuth	Bi				●		
Boron	B				●		
Bromine	Br				●		
Cadmium	Cd				●		●
Calcium	Ca				●		
Carbonate	CO <sub>3</sub>				●		
Chemical Oxygen Demand	COD				●		
Chloride	Cl				●		
Chromium	Cr				●		
Cobalt	Co				●		
Coliform, Fecal						●	
Coliform, Total						●	
Color (Not Precise)						●	
Cond. Hydrocarbon	Ch					●	
Conductivity, Specific	SC					●	
Copper	Cu			●			
Cyanide	CN				●		
Dissolving Oxygen	DO			●			
Element Scan							
Fecal Streptococcus						●	
Flow			■				
Fluoride	F				●		
Gallium	Ga				●		
Germanium	Ge				●		
Hardness (Ca, Mg)					●		
Hydroxides	OH				●		
Iodine	I				●		
Iron	Fe				●		
Kjeldahl Nitrogen					●		
Lead	Pb				●		
Level							
Lithium	Li				●		
Magnesium	Mg				●		
Manganese	Mn				●		
Mercury	Hg				●		
Methylene Blue Active Substance	MBAS				●		
Molybdenum	Mo				●		
Nickel	Ni				●		
Nitrate	NO <sub>3</sub>				●		
Nitrite	NO <sub>2</sub>				●		
Oil & Grease	ULB*				●		
Organic Carbon, Dissolved	DOC					●	
Organic Carbon, Total	TOC					●	
Ortho-Phosphorus (Phosphate)	PO <sub>4</sub>				●		
Pesticides					●		
Ph	PH		●				
Phenols					●		
Phosphate	PM				●		
Potassium	K				●		
Pubicium	PI				●		
Sediment Characterization							
Selenium	Se				●		
Scandium	Sc				●		
Silica	SiO <sub>2</sub>				●		
Silver	Ag				●		
Sodium	Na				●		
Solids, Dissolved	TDS				●		
Solids, Suspended	SOLS				●		
Strontium	Sr				●		
Surfactants					●		
Sulfate	SO <sub>4</sub>				●		
Sulfide	S <sub>2</sub>				●		
Temperature (°C)				●			
Thiosulfate	SpO <sub>3</sub>				●		
Tin	Sn				●		
Titanium	Ti				●		
Tungsten	W				●		
Turbidity					●		
Vanadium	V				●		
Yttrium	Y				●		
Zinc	Zn				●		
Zirconium	Zr				●		
Radioactivity						●	
Gross Alpha (cpm)						●	
Radium 226	Ra226					●	
Natural Uranium	U					●	
Gross Beta						●	
Cesium	Ce137					●	
Sr90						●	
Thorium 230	Th230					●	
Uranium	U					●	
Fractionation of Organic Carbon into							
a. Hydrophobic Bases							
b. Hydrophobic Acids							
c. Hydrophobic Neutrals							
d. Hydrophilic Bases							
e. Hydrophilic Acids							
f. Hydrophilic Neutrals							

\* DMP and WAP stations WS01, WS02, WS03, WS04, WS06, WS07, WS09, WS10. Additional WAP stations CER-1, B-3, H-3, F-3, Fig. 4-A, W-4, W-9, CER-7, S-9, P3 & 3A.  
SYMBOLS

- Applies to all DMP stations.
- Applies to two stations to be selected by A0SS0.
- Applies to DMP and WAP stations.

Revised 1/15/80.



WATER SAMPLING FREQUENCY REQUIREMENTS  
ALLUVIAL WELLS STATIONS\*

PARAMETERS	SYMBOL	DAILY	WEEKLY	MONTHLY	QUARTERLY	SEMI-ANNUALLY	ANNUALLY
Alkalinity	CaCO <sub>3</sub>				•		
Alkalinity	MA						
Alkalinity	FA						
Aluminum	Al				•		
Ammonia	as NH <sub>3</sub>				•		
Antimony					•		
Arsenic	As				•		
Bacteria	SE				•		
Boron	B				•		
Bromine	Br				•		
Bicarbonate	HCO <sub>3</sub>				•		
Biological Oxygen Demand	BOD				•		
Bismuth	Bi				•		
Cadmium	Cd				•		
Calcium	Ca				•		
Carbonate	CO <sub>3</sub>				•		
Chemical Oxygen Demand	COD				•		
Chloride	Cl				•		
Chromium	Cr				•		
Cobalt	Co				•		
Coliform, fecal						•	
Coliform, Total						•	
Color (not precise)						•	
Cond. Hydrocarbon	CH						
Conductivity, Specific	SPC			•			
Copper	Cu				•		
Cyanide	CN				•		
Dissolved Oxygen	DO			•			
Element Scan							
Fecal Streptococcus							
Fluoride	F				•		
Gallium	Ga				•		
Germanium	Ge				•		
Hardness (Ca, Mg)					•		
Hydrocarbons	OH						
Iodine	I				•		
Iron	Fe				•		
Kjeldahl Nitrogen					•		
Lead	Pb				•		
Lithium	Li			•			
Magnesium	Mg				•		
Manganese	Mn				•		
Mercury	Hg				•		
Methylene Blue Active Substance	MBAS						•
Molybdenum	Mo				•		
Nickel	Ni				•		
Nitrate	NO <sub>3</sub>				•		
Nitrite	NO <sub>2</sub>				•		
Oil & Grease	ULOH				•		
Organic Carbon, Dissolved	DOC					•	
Organic Carbon, Total	TOC					•	
Ortho-Phosphorus (Phosphate)	PO <sub>4</sub>						
Ecotoxicity							
pH	pH			•			
Phenols	PNH				•		
Plutonium	Pu				•		
Radium	RS				•		
Sediment Characterization							
Selenium	Se				•		
Scandium	Sc				•		
Silica	SiO <sub>2</sub>				•		
Silver	Ag				•		
Sodium	Na				•		
Solids, Dissolved	TDS				•		
Solids, Suspended	SOLS				•		
Strontium	Sr				•		
Surfactants							
Sulfate	SO <sub>4</sub>				•		
Sulfide	SO <sub>2</sub>						
Temperature (°C)				•			
Thiosulfite	S <sub>2</sub> O <sub>3</sub>						
Tin	Sr						
Titanium	Ti						
Tungsten	W						
Turbidity							
Vanadium	V						
Yttrium	Y						
Zinc	Zn				•		
Zirconium	Zr						
Radioactivity							
Gross Alpha (dcl)						•	
Radium 226	Ra226					•	
Natural Uranium	U					•	
Gross Beta						•	
Cesium	Ce137					•	
Sr90						•	
Thorium 230	Th230						
Uranium	U						
Fractionation of							
Organic Carbon into							
a. Hydrophobic Bases						•	
b. Hydrophobic Acids						•	
c. Hydrophobic Neutrals						•	
d. Hydrophilic Bases						•	
e. Hydrophilic Acids						•	
f. Hydrophilic Neutrals						•	

\* DMF and WAP stations: WA01, WA02, WA03, WA04, WA05, WA06, WA07, WA08, WA09, WA10, WA11, WA12, WA13.

Current status of wells (July 1979), WA02 and WA07 are plugged. WA04 and WA13 are dry. All others are being sampled.

SYMBOLS

• Applies to all stations (DMF and WAP).

Revised 1/15/80.

PARAMETERS	SYMBOL	SLM-					
		DAILY	WEEKLY	MONTHLY	QUARTERLY	ANNUALLY	ANNUALLY
Alkalinity	CaCO <sub>3</sub>						
As Alkalinity	MA						
P Alkalinity	PA						
Aluminum	Al						
Antimony	as Hg						
Arsenic	As						
Bacteria	SE						
Barium	Ba						
Beryllium	Be						
bicarbonate	HCO <sub>3</sub>						
Biological Oxygen Demand	BOD						
Bismuth	Bi						
Boron	B						
Bromine	Br						
Cadmium	Cd						
Calcium	Ca						
Carbonate	CO <sub>3</sub>						
Chemical Oxygen Demand	COD						
Chloride	Cl						
Chromium	Cr						
Cobalt	Co						
Cobalt, fecal							
Codiform, Total							
Color (Not Precise)							
Cond. Hydrocarbon	CH						
Conductivity, Specific	SPC						
Copper	Cu						
Cyanide	Cn						
Dissolved Oxygen	DO						
Element Star							
Fecal Streptococcus							
Fluoride	F						
Gallium	Ga						
Germanium	Ge						
Hardness (Ca, Mg)							
Hydroxide	OH						
Iodine	I						
Iron	Fe						
Kjeldahl Nitrogen							
Lead	Pb						
Level							
Lithium	Li						
Magnesium	Mg						
Manganese	Mn						
Mercury	Hg						
Methylene Blue Active Substance	MERS						
Molybdenum	Mo						
Nickel	Ni						
Nitrate	NO <sub>3</sub>						
Nitrite	NO <sub>2</sub>						
NO <sub>3</sub>							
Oil & Grease	Oil & Grease						
Organic Carbon, Dissolved	DOC						
Organic Carbon, Total	TOC						
Ortho-Phosphorus (Phosphate)	PO <sub>4</sub>						
Pesticides							
pH	pH						
Phenols	PHX						
Plu	Plu						
Potassium	K						
Radium	Ra						
Sediment Characterization							
Selenium	Se						
Selenium	Se						
Silica	SiO <sub>2</sub>						
Silver	Ag						
Sodium	Na						
Solids, Dissolved	TDS						
Solids, Suspended	SOLS						
Spectrophotometry	SP						
Surfactants							
Sulfate	SO <sub>4</sub>						
Sulfide	SO <sub>2</sub>						
Temperature (OC)							
Tricarballyate	SpO <sub>3</sub>						
Tin	Sn						
Titanium	Ti						
Tungsten	W						
Turbidity							
Vanadium	V						
Yttrium	Y						
Zinc	Zn						
Zirconium	Zr						
Radioactivity							
Gross Alpha (cpm)							
Radium 226	Ra226						
Natural Uranium	U						
Gross Beta							
Cesium	Ce137						
Sr90							
Thorium 230	Th230						
Uranium	U						
Fractionation of							
Organic Carbon into							
a. Hydrophobic Bases							
b. Hydrophobic Acids							
c. Hydrophobic Neutrals							
d. Hydrophilic Bases							
e. Hydrophilic Acids							
f. Hydrophilic Neutrals							

\* C-b affiliated (DMP and WAP stations)

WX02	WX10	WX18	WX32	WX55
WX03	WX12	WX19	WX33	WX63
WX04	WX17	WX20	WX44	WX92
		WX21		

Non-affiliated (Additional WAP stations)

TH75-5A	TH75-9A	Greene 4-4	Bute 25
TH75-13A	CLR RB-D-02	Oldland 3	Liberty Bell 12
TH75-18A	TH75-15A	GP-17X-BG	Union B1

#### SYMBOLS

- Applies to all C-b affiliated stations
- ▶ Applies to stations and species to be identified.
- Applies to both affiliated and non-affiliated stations.

Revised 1/15/80.

PARAMETERS	SYMBOL	DAILY	WEEKLY	MONTHLY	QUARTERLY	SEMI-ANNUALLY	ANNUALLY
Alkalinity	CaCO <sub>3</sub>					●	
Ammonia	MA						
Alkalinity	PA						
Aluminum	Al						
Antimony	as NH <sub>3</sub>					●	
Arsenic	As					●	
Bacteria	SB					●	
Barium	Ba					●	
Beryllium	Be					●	
Bicarbonate	HCO <sub>3</sub>					●	
Biological Oxygen Demand	BOD					●	
Bismuth	Bi					●	
Boron	B					●	
Bromine	Br					●	
Cadmium	Cd					●	
Calcium	Ca					●	
Carbonate	CO <sub>3</sub>					●	
Chemical Oxygen Demand	COD					●	
Chloride	Cl					●	
Chromium	Cr					●	
Cobalt	Co					●	
Coliform, fecal						●	
Coliform, total						●	
Color (not precise)						●	
Cong. Hydrocarbon	CH					●	
Conductivity, Specific	SPC					●	
Copper	Cu					●	
Cyanide	CN					●	
Dissolved Oxygen	DO					●	
Element Scan						●	
Fecal Streptococcus						●	
Fluoride	F					●	
Gallium	Ga					●	
Germanium	Ge					●	
Hardness (Ca, Mg)	OH					●	
Hexachlorobenzene	HC					●	
Iodine	I					●	
Iron	Fe					●	
Kjeldahl Nitrogen	Pb					●	
Lead	Pb					●	
Level						●	
Lithium	Li					●	
Magnesium	Mg					●	
Manganese	Mn					●	
Mercury	Hg					●	
Methylene Blue Active Substance	MBAS					●	
Molybdenum	Mo					●	
Nitrate	NO <sub>3</sub>					●	
Nitrite	NO <sub>2</sub>					●	
Oil & Grease	ULGK					●	
Organic Carbon, Dissolved	DOC					●	
Organic Carbon, Total	TOC					●	
Ortho-Phosphorus (Phosphate)	PO <sub>4</sub>					●	
Pesticides						●	
pH	pH					●	
Phenols						●	
PhA	PhA					●	
Potassium	K					●	
Radium	Ra					●	
Selenium Characterization						●	
Selenium	Se					●	
Scandium	Sc					●	
Silica	SiO <sub>2</sub>					●	
Silver	Ag					●	
Sodium	Na					●	
Solids, Dissolved	TDS					●	
Solids, Suspended	SDS					●	
Strontium	Sr					●	
Surfactants						●	
Sulfate	SO <sub>4</sub>					●	
Sulfide	SO <sub>2</sub>					●	
Temperature (°C)						●	
Thiosulfate	S <sub>2</sub> O <sub>3</sub>					●	
Tin	Sn					●	
Titanium	Ti					●	
Tungsten	W					●	
Turbidity						●	
Vanadium	V					●	
Yttrium	Y					●	
Zinc	Zn					●	
Zirconium	Zr					●	
Radioactivity						●	
Gross Alpha (dcl)						●	
Radium 226	Ra226					●	
Natural Uranium	U					●	
Gross Beta						●	
Cesium	Ce137					●	
Sr90						●	
Thorium 230	TH230					●	
Uranium	U					●	
Fractionation of Organic Carbon into						●	
a. Hydrophobic Bases						●	
b. Hydrophobic Acids						●	
c. Hydrophobic Neutrals						●	
d. Hydrophilic Bases						●	
e. Hydrophilic Acids						●	
f. Hydrophilic Neutrals						●	

\* C-b affiliated (DMP and WAP stations)

WY01	WY17	WY52	WY62
WY10	WY45	WY54	WY81
WY12	WY46	WY61	WY91

Non-affiliated (Additional WAP stations)

TH75-5B	TH75-9B	TG71-3	Liberty Bell 12
TH75-13B	Equity Sulfur 1A	TG71-5	Getty 9-4D
Equity 1	CER RB-D-03	Oldland 3	TG71-4
TH75-18B	TH75-15B	GP-17X-BG	Equity BS 13
TH75-10B	Greeno 4-4	Buck 25	

SYMBOLS

- Applies to all C-b affiliated stations
- ▶ Applies to stations and species to be identified
- Applies to both C-b affiliated and non-affiliated stations

Revised 1/15/80.



\* NPDES discharge points:

001 S12T3S F97W

600'S and 2100'E of section corner 1, 2, 11, 12

002 S12T3S R97W

~2100 'N and 3240'E of section corner 1, 2, 11, 12

003 S12T3S R97W

~2700'N and 4500'E of section corner 1, 2, 11, 12

## SYMBOLS

- Applies to all NPDES discharge points
- Daily flow also at USGS station WU61
- ▲ Total values
- ▼ Required if gross alpha or gross beta increases by 20% above average.
- ▲ Visual analysis of presence of oil and grease only.



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TABLE 2.2-2

INDEX TO SPECIAL DATA REQUIREMENTS  
AND TO SUPPLEMENTAL WATER DATA

Water Augmentation Plan Requirements

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### 2.2.1 Levels and Flows

This section presents hydrologic flows of surface streams and water levels in springs and seeps, alluvial and bedrock wells and impoundments. Stations required under the Development Monitoring Plan and more recently (August, 1979) under the Water Augmentation Plan are identified within each subsection.

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#### 2.2.1.1 Surface Streams

During this report period discharge data was collected at all of the 13 C-b affiliated surface water gauging stations shown on Figure 2.2.1.1-1. The period covered began in November, 1979 and extended through May, 1980.

Pages I-37 through I-49 summarize the discharge data for the stations shown on Table 2.2.1-1, the water quality parameters are presented in Section 2.2.2.1.

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Figure 2.2.1.1-1	USGS Stream Gauging Station Monitoring Network	I-35
Table 2.2.1.1-1	Surface Water Data Presented	I-36

An attempt has been made to refer to all stations in terms of their four-digit computer station code. For additional information on these codes refer to Section 4.0.

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U.S.G.S. STREAM GAUGING STATION MONITORING NETWORK

Figure 2.2.1.1-1



Stations	Daily Discharge (Flow)	Daily Mean Sediment & Discharged Data	Daily Dissolved Oxygen	Daily pH Readings	Daily Specific Conductance	Daily Temperature	Water Quality Data
09304800 (WU48)	(ND)				X	X	X
09306007*(WU07)	X		X		X	X	X
09306015 (WU15)	X						
09306022*(WU22)	X		X	X	X	X	X
09306025 (WU25)	X						X
09306028 (WU28)	X						X
09306033 (WU33)	X						
09306036 (WU36)	X						
09306039 (WU39)	X						
09306042 (WU42)	X				X	X	X
09306050 (WU50)	X						X
09306052 (WU52)	X						X
09306058*(WU58)	X		X	X	X	X	X
09306061*(WU61)	X		X	X	X	X	X
09306200 (WU00)	(ND)				X	X	X
09306222 (WU62)	(ND)				X	X	X
09306255 (WU55)	(ND)				X	X	X

\*Major Station

(ND) = Data Not Available

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR  
PICEANCE CR BL RIO BLANCO 09306007 WY 1980 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	6.20	15.00	11.00	11.00	12.00	11.00	12.00
2	5.90	15.00	11.00	10.00	8.90	10.00	12.00
3	5.90	14.00	11.00	9.90	8.90	11.00	12.00
4	5.90	14.00	9.60	9.90	8.90	11.00	12.00
5	6.20	14.00	9.60	9.90	9.60	11.00	13.00
6	6.20	14.00	9.60	9.20	8.90	11.00	13.00
7	5.90	13.00	9.90	9.90	9.00	11.00	13.00
8	5.90	13.00	9.90	9.90	11.00	11.00	13.00
9	5.90	13.00	9.90	9.90	14.00	10.00	14.00
10	6.80	13.00	9.90	10.00	15.00	10.00	14.00
11	7.70	13.00	10.00	12.00	16.00	11.00	14.00
12	7.10	13.00	10.00	9.90	15.00	11.00	14.00
13	6.50	13.00	16.00	10.00	8.50	11.00	14.00
14	6.80	13.00	10.00	12.00	8.50	11.00	14.00
15	7.10	12.00	10.00	11.00	9.10	12.00	14.00
16	8.00	12.00	10.00	9.90	9.10	12.00	14.00
17	8.30	12.00	10.00	9.90	8.80	11.00	14.00
18	8.70	12.00	10.00	9.60	12.00	11.00	14.00
19	9.40	12.00	10.00	9.20	13.00	11.00	14.00
20	11.00	12.00	10.00	8.90	12.00	11.00	14.00
21	11.00	12.00	10.00	10.00	11.00	12.00	14.00
22	12.00	12.00	11.00	9.00	11.00	12.00	14.00
23	13.00	12.00	11.00	11.00	11.00	12.00	14.00
24	14.00	12.00	11.00	10.00	9.90	12.00	14.00
25	14.00	12.00	11.00	8.70	11.00	12.00	14.00
26	14.00	11.00	10.00	8.40	9.60	12.00	14.00
27	14.00	11.00	11.00	11.00	10.00	11.00	14.00
28	14.00	11.00	11.00	9.10	11.00	12.00	14.00
29	17.00	11.00	11.00	9.40	11.00	12.00	14.00
30	16.00	11.00	12.00	9.50	0.00	12.00	14.00
31	15.00	0.00	11.00	12.00	0.00	12.00	14.00
TOTAL	295.40	377.00	327.40	310.10	313.70	350.00	184.00
WATER YEAR TOTAL		2157.60					
			MEAN	5.91			



DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR  
W F STEWART GL NR RIO BLANCO, CO. 09306015 1930 WY

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
2							
3							
4							
5							
6							
7							
8							
9							
10							
11							
12							
13							
14							
15							
16							
17							
18							
19							
20							
21							
22							
23							
24							
25							
26							
27							
28							
29							
30							
31							

TOTAL  
WATER YEAR TOTAL

0.00  
MEAN  
0.00

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

STEWART GL ABV W F 09306022 WY 1980 MEAN DAILY DISCHARGE

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	1.20	1.80	1.70	1.60	1.80	1.70	1.80
2	1.40	1.70	1.70	1.60	1.80	1.70	2.00
3	1.50	1.70	1.60	1.50	1.70	1.80	2.00
4	1.60	1.70	1.60	1.50	1.70	1.80	2.10
5	1.80	1.80	1.40	1.50	1.70	1.80	2.00
6	1.80	1.90	1.40	1.50	1.80	1.80	2.10
7	1.70	2.00	1.40	1.60	1.80	1.80	2.00
8	1.70	2.00	1.50	1.70	2.00	1.80	2.30
9	2.50	2.00	1.50	1.70	2.00	1.80	2.30
10	2.50	2.00	1.60	1.70	2.10	2.00	2.10
11	2.50	2.20	1.70	1.80	2.10	2.10	2.00
12	2.50	2.00	1.60	1.80	2.10	2.10	1.80
13	2.00	2.00	1.60	2.00	2.00	2.10	1.70
14	1.60	1.80	1.70	1.50	2.00	2.10	1.80
15	1.50	1.80	1.80	1.50	2.10	2.30	
16	1.50	1.80	1.80	1.50	2.00	2.30	
17	1.60	1.90	1.80	1.40	2.00	2.30	
18	1.50	2.00	2.00	1.50	2.40	2.30	
19	1.60	2.10	1.80	1.40	2.20	2.10	
20	1.70	2.10	1.60	1.50	1.80	2.00	
21	1.70	1.90	1.60	1.60	2.00	2.00	
22	1.70	2.00	1.60	1.60	2.10	2.00	
23	1.70	2.00	1.60	1.70	2.10	2.00	
24	1.50	2.20	1.60	1.80	2.10	2.00	
25	1.40	2.20	1.60	1.90	2.30	2.10	
26	1.40	2.10	1.60	1.80	2.30	2.10	
27	1.40	2.30	1.60	2.00	1.80	2.00	
28	1.30	2.20	1.60	2.00	2.00	2.10	
29	1.30	2.00	1.60	1.90	0.00	2.10	
30	1.30	1.70	1.60	1.70	0.00	2.10	
31	1.60	0.00	1.60	1.80	0.00	2.00	
TOTAL	52.00	58.90	50.40	51.60	55.80	62.20	28.00
WATER YEAR TOTAL		358.90		MEAN	0.98		

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR  
W F STEWART GL NR RIO BLANCO, CO. 09306025 1980 WY

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
2	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
3	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
4	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
5	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
6	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
7	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
8	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
9	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
10	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
11	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
12	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
13	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
14	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
15	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.08	NO FLOW
16	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.10	0.07	NO FLOW
17	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.15	0.00	NO FLOW
18	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.21	0.00	NO FLOW
19	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.54	0.00	NO FLOW
20	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.46	0.00	NO FLOW
21	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.14	0.00	NO FLOW
22	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
23	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
24	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
25	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
26	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
27	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.15	0.00	NO FLOW
28	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.18	0.00	NO FLOW
29	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.06	0.00	NO FLOW
30	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
31	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
TOTAL					1.99	0.15	
WATER YEAR TOTAL		2.14		MEAN	0.01		



DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

W F STEWART BL AT MOUTH 09306028 1980 WY

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.80	NO FLOW
2	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.10	NO FLOW
3	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.05	NO FLOW
4	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.05	NO FLOW
5	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.03	NO FLOW
6	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.01	NO FLOW
7	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
8	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
9	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
10	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
11	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
12	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
13	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
14	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.40	NO FLOW
15	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.40	NO FLOW
16	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
17	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
18	NO FLOW	NO FLOW	NO FLOW	NO FLOW	1.80	0.00	NO FLOW
19	NO FLOW	NO FLOW	NO FLOW	NO FLOW	1.30	0.00	NO FLOW
20	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.50	0.00	NO FLOW
21	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.20	0.00	NO FLOW
22	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.05	0.00	NO FLOW
23	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
24	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
25	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
26	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
27	NO FLOW	NO FLOW	NO FLOW	NO FLOW	1.06	0.00	NO FLOW
28	NO FLOW	NO FLOW	NO FLOW	NO FLOW	1.86	0.00	NO FLOW
29	NO FLOW	NO FLOW	NO FLOW	NO FLOW	1.07	0.00	NO FLOW
30	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
31	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
TOTAL					7.84	1.84	

WATER YEAR TOTAL 9.68 MEAN 0.03

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

SORGHUM GL NR RIO BLANCO, CO. 09306033 1980 WY

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
2	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
3	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
4	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
5	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
6	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
7	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
8	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
9	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
10	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
11	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
12	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
13	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
14	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
15	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
16	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
17	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
18	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
19	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00
20	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
21	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
22	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
23	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
24	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
25	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
26	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
27	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
28	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
29	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
30	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
31	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01
TOTAL							0.03
WATER YEAR TOTAL		0.03	MEAN	0.00			

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

SORGHUM GL AT MOUTH 09306036 1980 WY

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
2	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
3	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
4	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
5	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
6	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
7	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
8	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
9	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
10	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
11	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
12	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
13	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
14	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
15	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
16	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
17	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
18	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
19	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
20	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
21	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
22	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
23	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
24	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
25	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
26	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
27	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
28	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
29	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
30	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
31	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW	NO FLOW
TOTAL							
WATER YEAR TOTAL		0.00	MEAN	0.00			



DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR  
COTTONWOOD CR NR RIO BLANCO, CO 09306039 1980 WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00		0.00
2					0.00		0.00
3					0.00		0.00
4					0.00		0.00
5					0.00		0.00
6					0.00		0.00
7					0.00		0.00
8					0.00		0.00
9					0.00		0.00
10					0.00		0.00
11					0.00		0.00
12					0.00		0.00
13					0.00		0.00
14					0.00		0.00
15					0.00		0.00
16					0.01		0.00
17					0.00		0.00
18					0.15		0.00
19					0.14		0.00
20					0.01		0.01
21					0.00		0.01
22					0.00		0.01
23					0.00		0.01
24					0.00		0.01
25					0.00		
26					0.00		
27					0.00		
28					0.00		
29					0.00		
30					0.00		
31					0.00		
TOTAL					0.31		0.04

WATER YEAR TOTAL      0.35      MEAN      0.00

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

PICEANCE CR TRIB NR RIO BLANCO 09306042 WY 1980 MEAN DAILY DISCHARGE IN CFS

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	0.02	0.00	0.30	0.00	0.00	0.30	0.05
2	0.03	0.00	0.00	0.00	0.00	0.30	0.05
3	0.00	0.00	0.00	0.00	0.00	0.30	0.05
4	0.00	0.00	0.00	0.00	0.00	0.40	0.04
5	0.07	0.10	0.00	0.00	0.00	0.20	0.04
6	0.00	0.25	0.00	0.00	0.00	0.20	0.04
7	0.00	0.00	0.00	0.00	0.00	0.20	0.02
8	0.02	0.20	0.18	0.00	0.00	0.50	0.00
9	0.02	0.21	0.00	0.00	0.00	0.10	0.40
10	0.00	0.00	0.00	0.00	0.00	0.20	0.40
11	0.03	0.00	0.00	0.00	0.00	0.20	0.50
12	0.04	0.00	0.00	0.00	0.00	0.30	0.50
13	0.00	0.00	0.00	0.00	0.00	0.00	0.50
14	0.00	0.12	0.00	0.00	0.00	0.20	0.40
15	0.00	0.00	0.15	0.06	0.00	0.50	0.50
16	0.00	0.00	0.10	0.05	0.05	0.40	0.40
17	0.05	0.00	0.00	0.05	0.20	0.00	0.50
18	0.12	0.00	0.00	0.00	0.50	0.05	0.50
19	0.32	0.00	0.05	0.20	1.00	0.20	0.40
20	0.19	0.00	0.10	0.60	0.50	0.20	0.50
21	0.00	0.00	0.05	0.10	0.30	0.20	0.40
22	0.00	0.00	0.00	0.00	0.30	0.20	0.50
23	0.00	0.00	0.00	0.00	0.30	0.20	0.50
24	0.00	0.03	0.00	0.00	0.20	0.10	0.40
25	0.00	0.26	0.00	0.00	0.20	0.10	0.50
26	0.00	0.00	0.00	0.30	0.20	0.10	0.40
27	0.00	0.00	0.10	0.05	0.20	0.10	0.50
28	0.05	0.00	0.15	0.00	0.20	0.10	0.40
29	0.00	0.00	0.15	0.00	0.20	0.10	0.50
30	0.13	0.10	0.10	0.00	0.00	0.05	0.40
31	0.15	0.00	0.00	0.01	0.00	0.05	0.50
TOTAL	1.24	1.27	1.43	1.42	4.35	6.05	3.49
WATER YEAR TOTAL		19.25	MEAN	0.05			

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

STANDARD GL NR RIO BLANCO, CO 09306050 1980 WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
2	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
3	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
4	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
5	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
6	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
7	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
8	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
9	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
10	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
11	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
12	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
13	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
14	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
15	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
16	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
17	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
18	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
19	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.01	NO FLOW	NO FLOW
20	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
21	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
22	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
23	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
24	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
25	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
26	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
27	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
28	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
29	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
30	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
31	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	NO FLOW	NO FLOW
TOTAL					0.01		
WATER YEAR TOTAL		0.01	MEAN	0.00			



DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

STANDARD GL AT MOUTH 09306052 1980 WATER YEAR

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	NO FLOW	NO FLOW	NO FLOW	NO FLOW	0.00	0.00	NO FLOW
2					0.00	0.00	
3					0.00	0.00	
4					0.00	0.00	
5					0.00	0.00	
6					0.00	0.00	
7					0.00	0.00	
8					0.00	0.00	
9					0.00	0.00	
10					0.00	0.00	
11					0.00	0.00	
12					0.00	0.00	
13					0.00	0.00	
14					0.00	0.00	
15					0.00	0.00	
16					0.00	0.01	
17					0.00	0.00	
18					0.00	0.00	
19					0.00	0.01	
20					1.90	0.01	
21					2.40	0.01	
22					0.16	0.01	
23					0.00	0.00	
24					0.00	0.00	
25					0.00	0.00	
26					0.00	0.00	
27					0.00	0.00	
28					0.00	0.00	
29					0.00	0.00	
30					0.00	0.00	
31					0.00	0.00	
TOTAL					4.46	0.05	
WATER YEAR TOTAL		4.51	MEAN	0.01			

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

WILLOW CR NR RIO BLANCO, CO 09306058 WY 1980

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	2.20	4.40	26.00	3.40	3.90	4.30	4.10
2	5.20	5.20	16.00	3.40	3.30	4.20	4.10
3	4.60	5.20	4.40	4.10	3.30	4.30	4.10
4	4.60	5.60	4.30	3.30	3.20	4.40	4.10
5	4.60	6.00	4.50	3.00	3.30	4.40	4.10
6	4.90	6.00	4.50	2.70	3.20	4.40	4.10
7	4.60	5.20	4.40	3.30	3.30	4.30	4.00
8	4.60	4.40	4.40	3.00	3.00	4.30	3.90
9	4.40	4.60	4.40	3.00	4.10	4.20	3.90
10	4.40	4.60	4.50	3.00	4.10	4.30	3.90
11	4.10	4.60	4.40	3.40	5.20	4.40	3.70
12	3.90	4.90	7.00	3.20	3.10	4.40	3.40
13	3.90	4.60	17.00	3.60	3.00	4.40	3.30
14	4.10	4.40	13.00	3.90	3.10	4.40	3.40
15	3.90	4.40	4.40	3.70	3.20	4.50	3.40
16	3.70	4.40	3.70	3.60	3.30	4.60	3.70
17	3.90	4.30	4.40	3.30	3.30	4.20	3.60
18	4.10	4.60	4.20	3.30	4.00	4.40	
19	4.10	4.60	4.30	3.20	4.70	4.30	
20	4.40	4.60	3.30	3.30	5.30	4.30	
21	4.40	4.60	3.20	3.40	4.70	4.30	
22	3.90	4.80	3.60	3.20	4.50	4.40	
23	3.90	5.10	3.40	3.60	4.40	4.30	
24	4.00	4.50	3.60	3.00	4.40	4.30	
25	3.70	4.60	3.30	3.30	4.40	4.30	
26	3.90	4.60	3.60	3.30	4.40	4.10	
27	3.90	4.90	3.40	3.60	4.50	4.10	
28	4.40	5.70	3.40	3.20	4.50	4.10	
29	5.20	11.00	3.70	3.30	0.00	4.20	
30	5.60	26.00	4.40	3.00	0.00	4.20	
31	4.40	0.00	5.30	4.20	0.00	4.10	
TOTAL	131.50	172.40	184.00	103.80	108.70	133.40	64.80
WATER YEAR TOTAL		898.60		MEAN	2.46		

DISCHARGE, IN CFS, WATER YEAR 1980, MEAN VALUES, FOR

PICEANCE CR ABV HUNTER 09306061 WY 1980

	OCT	NOV	DEC	JAN	FEB	MAR	APR
1	10.00	21.00	18.00	21.00	17.00	25.00	21.00
2	12.00	19.00	17.00	20.00	17.00	25.00	22.00
3	13.00	19.00	21.00	19.00	18.00	25.00	22.00
4	13.00	18.00	19.00	18.00	17.00	26.00	22.00
5	14.00	18.00	19.00	17.00	17.00	25.00	23.00
6	14.00	19.00	20.00	16.00	18.00	23.00	23.00
7	14.00	19.00	19.00	17.00	18.00	23.00	24.00
8	13.00	19.00	20.00	17.00	18.00	22.00	23.00
9	13.00	20.00	20.00	17.00	18.00	21.00	23.00
10	13.00	19.00	20.00	18.00	18.00	21.00	24.00
11	14.00	19.00	21.00	17.00	18.00	21.00	24.00
12	13.00	19.00	21.00	16.00	17.00	21.00	24.00
13	12.00	19.00	22.00	19.00	17.00	22.00	23.00
14	11.00	21.00	22.00	23.00	18.00	23.00	23.00
15	11.00	23.00	22.00	23.00	20.00	24.00	25.00
16	11.00	23.00	23.00	20.00	22.00	26.00	25.00
17	13.00	23.00	23.00	20.00	21.00	26.00	25.00
18	14.00	23.00	24.00	19.00	28.00	23.00	
19	15.00	24.00	25.00	19.00	36.00	22.00	
20	19.00	24.00	25.00	19.00	29.00	22.00	
21	19.00	23.00	26.00	19.00	26.00	22.00	
22	20.00	42.00	26.00	19.00	24.00	23.00	
23	21.00	53.00	25.00	19.00	23.00	23.00	
24	28.00	21.00	25.00	19.00	23.00	23.00	
25	28.00	22.00	25.00	19.00	23.00	23.00	
26	28.00	22.00	25.00	19.00	23.00	22.00	
27	28.00	26.00	25.00	19.00	25.00	21.00	
28	26.00	49.00	24.00	18.00	25.00	21.00	
29	30.00	72.00	24.00	18.00	0.00	22.00	
30	29.00	21.00	23.00	18.00	0.00	22.00	
31	27.00	0.00	22.00	18.00	0.00	22.00	
TOTAL	546.00	760.00	691.00	580.00	594.00	710.00	396.00

WATER YEAR TOTAL 4277.00 MEAN 11.72



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SPRINGS AND SEEPS





### 2.2.1.2 Springs and Seeps

Nine springs provide data under the Development Monitoring Plan (DMP) for flow and water quality analysis on and in the vicinity of Tract C-b. These springs are shown in Figure 2.2.1.2-1. Fifteen additional springs are also monitored under the Water Augmentation Plan (WAP); they are shown in Figure 2.2-1. Data from springs WS11 and WS36 are also presented in this section. Table 2.2.1.2-1 presents flow, dissolved oxygen, pH, specific conductance and temperature for the DMP stations and station WS11. Flow data for the WAP stations and station WS36 are presented in Table 2.2.1.2-1.

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Figure 2.2.1.2-1	<u>DMP Requirements</u> Springs and Seeps	I-53
Table 2.2.1.2-1	Water Flow and Field Measurements of Springs around Tract C-b	I-54
Table 2.2.1.2-2	<u>WAP Requirements</u> Water Flow Measurements	I-66

An attempt has been made to refer to all stations by their four-digit computer station codes. For additional information on these codes refer to Section 4.0.

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SPRINGS AND SEEPS AROUND  
Cb TRACT

Figure 2.2.1.2-1



CB-TRACT  
WATER FLOW AND FIELD MEASUREMENTS  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS01	79	1	4		2.35	5.5	7.8	6.4	1200.0
		2	6		3.12	6.5	7.5	5.1	1225.0
		3	9		3.30	6.0		6.9	1175.0
		29		NOFLME					
		4	16		3.40				
		23			1.44				
		5	8		1.44	8.0	7.8	5.6	1200.0
		6	6		.26	13.0	7.2	12.0	1350.0
		13			.09				
		21			.09				
		24			.07				
		7	3	DRY					
		23			.09				
		8	14		1.86	16.4	8.0	7.7	1250.0
		9	14		1.41				
		21			1.44				
		28			1.48				
		10	5		1.51				
		16			1.70				
		24			1.63				
		31			1.70	10.0	7.9	10.9	1400.0
		11	7		2.18				
		15			2.14				
		20			.15				
		29			.19				
		12	5		.17				
		12			.15				
		21			.12				
80		1	2		.12	11.5	7.7	8.4	1300.0
		9			.12				
		23			2.52				
		30			2.57				
		2	6		1.86	2.0	7.8	18.0	1300.0
		13			2.35				
		20			2.39				
		29			2.35				
		3	5		2.93	8.0	7.8	10.5	1300.0
		13			2.39				

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN  
DIVER = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)

CH-THACT WATER FLOW AND FIELD MEASUREMENTS SPRINGS AND SEEPS FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS01	80	3	18		2.44				
		4	28		2.44				
		4	3		2.52				
		14	23		2.31				
		5	2		2.61				
		9	9		2.52	10.0	8.0	5.5	1000.0
		16	16	DIVERT	2.39				
		19	19	DIVERT					
		29	29	DIVERT					
WS02	79	1	4		.20	5.5	7.8	6.4	1200.0
		2	6		.45	6.0	7.8	7.1	1100.0
		3	9		.45	6.5		7.1	1125.0
		4	29		.45				
		4	16		.45				
		5	23		.45				
		5	8		.45	8.0	8.4	7.9	1100.0
		6	5		.07	10.8	8.5	6.6	1100.0
		13	13		-.28				
		21	21		-.28				
		24	24		-.28				
		7	3		-.28	10.5	8.1	7.9	1120.0
		8	23		-.28				
		8	14		-.28	19.0	8.2	6.0	1100.0
		9	14	NOFLME					
		21	21	NOFLME					
		28	28	NOFLME					
		10	5		.03				
		16	16		.06				
		24	24		.09				
		11	31		.17	9.0	7.9	8.2	1200.0
		14	7		.04				
		14	14		.04				
		20	20		.04				
		28	28		.06				
		12	5		.05				
		12	12		.05				

DRY = SPRING DRY  
 NOFLME = NO FLUME  
 - = LESS THAN  
 DIVERT = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)

CB-TRACI									
WATER FLOW AND FIELD MEASUREMENTS									
SPRINGS AND SEEPS									
FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC CONC (UMHOS)
WS02	79	12	1		.06				
			2		.05	9.5	7.8	9.0	1200.0
			9		.05				
			23		.04				
			30		.03				
			6		.03	3.0	8.1	14.6	1200.0
			13		.03				
			20		.04				
			29		.04				
			3		.04	13.0	8.0	10.0	1100.0
			13		.04				
			18		.04				
			28		.04				
			3		.04				
			14		.04				
			24		.37				
			30		.04				
WS03	79	12	1		.66	5.5	7.6	5.9	1250.0
			2		.00	6.5	7.5	5.6	1200.0
			3		1.79	5.5		6.2	1200.0
			29		.58				
			4		.18				
			16		.58				
			23		.58				
			5		.58	8.0	7.7	6.2	1200.0
			6		.88	10.2	6.9	13.6	1300.0
			13		.82				
			21		2.09				
			24		.88				
			7		2.32	11.0	7.8	10.0	1300.0
			23		2.57				
			8	9	DIVERT	17.5	7.7	10.6	1350.0
			9	14	DIVERT				

DRY = SPRING DRY  
 NOFLME = NO FLUME  
 - = LESS THAN  
 DIVERT = FLOW DIVERTED FOR IRRIGATION



TABLE 2.2.1.2-1 (Continued)

CB-TRACT									
WATER FLOW AND FIELD MEASUREMENTS									
SPRINGS AND SEEPS									
FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS03	79	9	21	DIVERT	.35	10.0	7.4	7.5	1400.0
			28	DIVERT	2.57				
			20		-2.57				
			28		5.66				
			5	DIVERT	6.11				
		10	16	DIVERT	6.22				
			24	DIVERT	6.56				
			31		6.79				
			11		6.79	8.5	7.7	9.4	1225.0
			15		6.66				
			20		6.66				
			28		6.66				
			5		6.66				
			12		6.66				
			21		6.66				
WS04	79	1	2		6.66	3.0	7.7	16.0	1400.0
			9		6.66				
			23		6.66				
			30		6.66				
			6		6.66				
		2	13		6.66				
			20		6.66				
			29		6.66				
			5		6.66				
			13		6.66				
		3	18		6.66				
			28		6.66				
			3		6.66				
			14		6.66				
			23		6.66				
		4	2		6.66				
			9		6.66				
			16		6.66	9.5	7.9	7.3	1100.0
			19	DIVERT	6.66				
			29	DIVERT	6.66				
WS04	79	1	4		.05	6.0	7.2	5.3	1125.0
			6		.10	5.5	7.7	6.4	1150.0
			3	NOFLME		6.5		5.0	1225.0
			29		.10				
			29						

DRY = SPRING DRY  
 NOFLME = NO FLOW  
 - = LESS THAN  
 DIVERT = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)  
CH-TRACT  
WATER FLOW AND FIELD MEASUREMENTS  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS04	79	4	16		-.10				
		23			-.10				
	5	8			.10	8.0	7.6	4.7	1300.0
	6	6		NOFLME		12.0	7.0	12.4	1200.0
		13			.37				
		21			.34				
		24			.32				
	7	3			.32	13.4	7.7	7.0	1200.0
		23			.31				
	8	14			.29	16.5	7.9	5.8	1150.0
	9	14			.58				
		21			.58				
		28			.87				
	10	5			.67				
		16			.69				
		24			.69				
		31			.48	9.0	8.0	7.7	1200.0
	11	7			.65				
		14			.62				
		20			.62				
		28			.65				
	12	5			.65				
		12			.60				
		21			.52				
80	1	2			.50	11.0	7.8	8.3	1200.0
		9			.48				
		23			.48				
		30			.48				
	2	6			.48	2.0	7.8	16.0	1200.0
		13			.52				
		20			.52				
		29			.54				
	3	5			.54	10.5	7.9	10.3	1200.0
		13			.58				
		18			.60				
		28			.56				
	4	3			.54				
		14			.54				

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN  
DIVERST = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)

CB-THACT WATER FLOW AND FIELD MEASUREMENTS SPRINGS AND SEEPS FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS04	80	4	24		.50				
		30			.50				
	5	9			.48	12.5	7.7	6.6	1000.0
	15				.48				
	19				.41				
	29				.43				
WS06	79	1	3		.45	4.5	7.6	4.1	1200.0
	2	6			.36	5.0	7.4	4.1	1325.0
	3	8			.38	4.5		5.9	1325.0
	29				.39				
	4	4			.48	8.0	7.6	5.1	1250.0
	16				.48				
	23				.48				
	5	7			.48	8.0	7.6	4.8	1225.0
	6	5			.52	8.0	7.0	8.7	1320.0
	13				1.74				
	21				2.57				
	24				.65				
	7	3			.76	9.5	7.9	7.5	1100.0
	19				.92				
	8	9			.67	11.5	7.5	7.2	1400.0
	9	14			.85				
	21				.87				
	28				.92				
10	5				.93				
	17				1.12				
	24				1.31	8.5	7.7	6.4	1400.0
	31				1.04				
11	7				1.05				
	14				.65				
	29								
12	5			DIVERT					
	12			DIVERT					
	21			DIVERT					
80	1	3		DIVERT		11.0	7.9	8.8	1250.0
	9				1.51				
	23				1.56				

DRY = SPRING DRY  
 NOFLME = NO FLUME  
 - = LESS THAN  
 DIVERT = FLOW DIVERTED FOR IRRIGATION



TABLE 2.2.1.2-1 (Continued)

CB-TRACT									
WATER FLOW AND FIELD MEASUREMENTS									
SPRINGS AND SEEPS									
FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
-----	--	--	--	-----	-----	-----	---	-----	-----
WS06	80	1	31		.87				
		2	6		1.15	1.0	7.7	14.2	1400.0
		20		INACCS					
		27			1.17				
		3	10		.99	10.0	7.6	6.8	1300.0
		18			.99				
		26			.56				
		4	2		.52				
		8			.56				
		14			.52				
		22			.48				
		5	2		.48	10.0	7.5	5.5	1100.0
		9			.49				
		21		DIVERT					
		30		DIVERT					
WS07	79	1	3	NOFLME					
		2	6	NOFLME		5.0	7.4	5.9	1400.0
		3	8	NOFLME		4.5		7.8	1250.0
		29		NOFLME					
		4	4	NOFLME		8.0	7.5	5.8	1275.0
		16		NOFLME					
		23		NOFLME					
		5	7		1.20				
		6	5	NOFLME		8.0	7.5	5.8	1175.0
		13		NOFLME		10.0	7.0	5.3	1200.0
		20		NOFLME					
		24		NOFLME					
		7	3	NOFLME		10.0	7.2	5.6	1200.0
		8	9	NOFLME					
		9	14	NOFLME		19.0	7.5	7.0	1300.0
		21		NOFLME					
	10	28		NOFLME					
		5		NOFLME					
		17		NOFLME					
		24		NOFLME					
	31			NOFLME		9.5	7.5	7.9	1450.0

DRY = SPRING DRY  
 NOFLME = NO FLOW  
 - = LESS THAN  
 DIVERT = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)

CB-TRACT									
WATER FLOW AND FIELD MEASUREMENTS									
SPRINGS AND SEEPS									
FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS07	79	11	7	NOFLME					
			14	NOFLME					
			29	NOFLME					
			12	5	NOFLME				
			12	NOFLME					
	80	1	21	NOFLME					
			3	NOFLME		10.5	7.6	8.0	1200.0
			9	NOFLME					
			23	NOFLME					
			31	NOFLME					
	2	6	NOFLME			2.0	7.6	10.3	1425.0
			20	NOFLME					
			27	NOFLME					
			3	10	NOFLME				
			18	NOFLME		13.5	7.4	7.9	1300.0
	4	2	NOFLME						
			NOFLME						
			8	NOFLME					
			14	NOFLME					
			22	NOFLME					
	5	2	NOFLME						
			9	NOFLME					
			21	NOFLME	.32	11.5	7.4	6.8	1200.0
			30		.40				
	79	1	3	DRY					
			2	6	DRY				
			3	8	DRY				
			29	DRY					
			4	4	DRY				
	5	6	16	DRY					
			23	NOFLME					
			7	NOFLME		12.5	7.1	12.4	1300.0
			6	6	NOFLME				
			13		.89				
	7	20			.73				
			24		.60				
			3		1.84	10.5	7.4	6.9	1330.0

DRY = SPRING DRY  
 NOFLME = NO FLUME  
 - = LESS THAN  
 DIVERI = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)

C8-TRACT									
WATER FLOW AND FIELD MEASUREMENTS									
SPRINGS AND SEEPS									
FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHUS)
4508	79	7	18		1.62				
			7		.43	21.0	7.5	6.2	1200.0
			9		.16				
			14		.43				
		10	21		.60				
			28		.78				
			5		.67				
			10		.50				
		11	17		.52				
			24		.52				
			31		.52	11.0	7.4	5.1	1400.0
			7		.52				
		12	14		.39				
			29		.22				
			5		.16				
			12		.24				
4509	80	1	21		.24				
			28		.28				
			3		.22	9.0	7.7	7.7	1400.0
			9		.14				
		2	23		.19				
			31		.11				
			6		.14	3.0	7.6	9.4	1400.0
			20		.34				
		3	27		.10				
			5		.07	9.0	7.5	5.8	1400.0
			10		.07				
			18		.07				
		4	26		-.07				
			2		-.05				
			8		.01				
			14		.05				
4509	79	1	24		-.05				
			2		-.05				
			2		-.05				
			16	DRY	-.05				
		2	30		-.05				
			1		.21	4.0	7.6	4.3	1325.0
			6		.22	6.0	7.4	4.9	1250.0
		3							
		4							

DRY = SPRING DRY  
 NOFLME = NO FLUME  
 - = LESS THAN  
 DIVERT = FLOW DIVERTED FOR IRRIGATION



TABLE 2.2.1.2-1 (Continued)

C8-TRACT WATER FLOW AND FIELD MEASUREMENTS SPRINGS AND SEEPS FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHUS)
4509	79	3	8	---	.23	5.5	---	4.8	1300.0
		4	29	---	.23	8.0	7.6	4.5	1250.0
		4	16	---	.23				
		5	23	---	.23				
		5	7	---	.23	8.0	7.6	6.3	1150.0
		6	5	---	.62	14.0	6.6	11.8	1300.0
		6	13	---	.21				
		20		---	.22				
		24		---	.22				
		7	3	---	.22	12.0	7.5	7.9	1250.0
		8	18	---	.20				
		8	7	---	.20	20.9	7.7	8.4	1300.0
		9	14	---	.20				
		21		---	.22				
		28		---	.22				
		10	5	---	.22				
		10	10	---	.21				
		17		---	.20				
		24		---	.17				
		31		---	.22	10.0	7.5	5.8	1350.0
		11	7	---	.22				
		14		---	.22				
		29		---	.13				
		12	5	---	.22				
		12	12	---	.21				
		21		---	.20				
		28		---	.21				
80	1	3		---	.20	8.5	7.7	9.0	1400.0
		9		---	.20				
		23		---	.20				
		31		---	.20				
		2	6	---	.20	2.0	7.7	14.8	1400.0
		20		---	.22				
		27		---	.22				
		3	5	---	.22	9.5	7.6	9.8	1400.0
		10		---	.22				
		18		---	.23				

DRY = SPRING DRY  
 NOFLME = NO FLOW  
 - = LESS THAN  
 DIVERT = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)

CB-THACT									
WATER FLOW AND FIELD MEASUREMENTS									
SPRINGS AND SEEPS									
FOR SAMPLE DATE SHOWN									
SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS09	80	4	2		.22				
			2		.22				
			8		.20				
			14		.20				
			24		.20				
			5		.21				
			9		.22	10.5	7.5	7.6	1150.0
			16		.24				
			30		.22				
WS10	79	1	3		.48	4.0	7.4	4.1	1250.0
			6		.48	6.5	7.4	4.8	1200.0
			3		.41	6.0		7.1	1200.0
			29	NOFLME					
			4	NOFLME		8.0	7.7	4.4	1275.0
			16		.41				
			23		.41				
			5		.41	8.0	7.6	5.6	1125.0
			6		.22	10.0	6.7	12.4	1400.0
			13		.65				
			20		.73				
			24		.78				
			3		.78	8.0	7.6	8.2	1200.0
			18		.82				
			9		.48	22.9	8.1	10.0	1250.0
			9		.76				
			28		.80				
			10		.82				
			5		.60				
			10		.80				
			17		.78				
			24		.69	5.5	7.8	9.0	1200.0
			31		.71				
			11		.71				
			14		1.20				
			29		.69				
			12		.67				
			5		.65				
			12						
			21						

DRY = SPRING DRY  
 NOFLME = NO FLUME  
 - = LESS THAN  
 DIVER = FLOW DIVERTED FOR IRRIGATION

TABLE 2.2.1.2-1 (Continued)

WATER FLOW AND FIELD MEASUREMENTS  
CH-FRACT  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WS10	79	12	28		.62				
	80	1	3		.62	9.0	8.0	9.2	1250.0
			9		.62				
			23		.65				
			31		.65				
	2	6			.60	3.5	7.8	12.8	1200.0
		20		LEAKING					
		27			.58				
	3	5			.56	7.0	7.8	10.0	1200.0
		10			.65				
		18			.54				
		26			.54				
	4	2			.52				
		8			.52				
		14			.52				
		24			.50				
	5	2			.48	11.5	7.9	9.8	1100.0
		9			.48				
		16			.60				
		30			.65				
WS11	80	4	14		.60				
		24			.58				
	5	2			.60				
		9			.60	9.0	7.6	6.3	1100.0
		16			.60				
		30			.65				

DRY = SPRING DRY

NOFLME = NO FLUME

- = LESS THAN

DIVERT = FLOW DIVERTED FOR IRRIGATION



TABLE 2.2.1.2-2  
CH-TRACT  
WATER FLOW REQUIRED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
WS21	79	7	9		1.04
		8	15		.58
		21			.52
		28			.48
	9	5			.41
		11			.39
		19			.38
		25			.36
	10	2			.38
		9			.39
		18			.39
		24			.39
		31			.39
	11	8			.42
		12			.41
	12	3			.39
		14			.39
		21			.38
80	1	2			.39
		9			.38
		15			.38
		23			.38
		29			.36
	2	6			.36
		12			.36
		20			.50
	3	5			.47
		11			.45
		18			.42
		25			.45
	4	3			.42
		8			.42
		15			.42
		22			.39
	5	5			.42
		14			.50
		20			.75
WS22	79	7	9		.55
		8	6		.51

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CH-FRACT  
WATER FLOW REQUIRED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
-----	--	--	--	-----	-----
WS22	79	8	15		.50
			21		.51
		9	5		.49
			11		.49
			18		.47
			25		.47
		10	2		.46
			9		.46
			18		.46
			24		.44
			31		.46
		11	8		.45
			12		.45
		12	3		.50
			14		.45
			21		.46
	80	1	2		.46
			9		.45
			15		.50
			23		.50
			27		.47
		2	6		.47
			12		.46
			20		.53
		3	5		.52
			11		.51
			18		.51
			25		.51
		4	3		.50
			8		.50
			15		.48
			22		.47
		5	5		.65
			14		.67
			21		.73
			29		.73
WS23	79	7	17		.99
		8	15		1.26

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

Cd-THACT  
WATER FLOW REQUIRED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
WS23	79	8	16		1.17
			22		1.36
			28		1.45
	9	6			1.59
		12			1.65
		19			1.68
		25			1.71
	10	2			1.74
		10			1.87
		18			1.90
		30			1.97
	11	8			1.87
		16			1.84
		21			1.77
		29			1.74
	12	14			1.68
		21			1.68
		26			1.65
80	1	3			1.56
		10			1.56
		16			1.45
		24			1.45
		28			1.45
	2	7			1.45
		13			1.45
		20			1.45
		28			1.48
	3	6			1.50
		13			1.42
		20			1.45
		26			1.45
	4	4			1.53
		9			1.53
		16			1.45
		23			1.45
	5	6			1.68
		15			1.68
		21			1.68
		30			1.74

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CBS-TRACT  
WATER FLOW MEASURED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (GFS)
-----	--	--	--	-----	-----
WS24	79	7	10		2.06
		8	6		1.77
		15			1.74
		21			1.74
		28			1.64
		4	5		1.62
		11			1.59
		19			1.53
		25			1.50
		10	2		1.42
		10			1.39
		18			1.31
		24			1.28
		31			1.31
		11	8		1.23
		16			1.20
		24			1.17
		4			1.15
		10			1.07
		21			1.12
80	1	2			1.04
		9			.99
		15			1.02
		29			.97
		6			.94
		12			.97
		20			1.02
		27			.94
		3	6		.94
		11			.92
		18			.92
		25			.87
		4	1		.89
		8			.87
		15			.85
		22			.87
		5	5		1.10
		14			1.68
		20			2.00
		29			2.22

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN



TABLE 2.2.1.2-2 (Continued)

CH-INACT  
WATER FLOW REQUIRED BY MAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
-----	--	--	--	-----	-----
WS25	79	7	3		2.40
		7	5		.26
		11			.22
		18			.18
		24			.14
		10	1		.11
			9		.09
		17			.07
		24			.06
		11	6		.06
		12	12		.04
		12	13		-.04
80		1	22	INACCS	
		2	20	INACCS	
		3	28	INACCS	
		5	23		6.00
WS26	79	7	21		.31
		8	7		.43
		15			.36
		22			.37
		29			.37
		9	6		.29
		12			.29
		20			.29
		26			.28
		10	3		.28
			8		.28
		18			.28
		29			.30
		11	7		.30
			13		.30
			21		.30
		29			.31
		12	5		.31
			14		.31
		20			.31
		27			.28
80		1	2		.26
			10		.28

DRY = SPRING DRY  
NOFLME = NO FLOW  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CR-TRACT  
WATER FLOW REQUIRED BY MAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DY	STATUS	FLOW (CFS)
WS26	80	1	16		.27
			23		.29
			28		.29
		2	7		.28
			13		.27
			21		.30
			28		.32
		3	6		.31
			13		.29
			20		.30
			26		.29
		4	4		.28
			9		.28
			16		.29
			24		.28
		5	6		.27
			15		.31
			21		.36
			30		.37
WS27	79	7	21		.21
		8	7		.20
			15		.20
			22		.18
			29		.17
		9	6		.17
			12		.17
			20		.16
			26		.16
		10	3		.16
			8		.16
			18		.15
			29		.15
		11	7		.15
			13		.15
			21		.15
			29		.15
		12	5		.15
			14		.15
			20		.15

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW MEASURED BY WAP  
SPRINGS AND SEEP'S  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
-----	---	---	---	-----	-----
WS27	79	12	27		.15
	80	1	2		.15
			16		.15
			23		.15
			28		.15
		2	13		.15
			21		.15
			28		.15
		3	26		.15
		4	9		.15
			24		.20
		5	6		.24
			15		.50
			21		.47
			30		.47
WS28	79	7	22		1.53
		8	7		1.50
			15		1.40
			22		1.34
			29		1.39
		9	6		1.45
			12		1.48
			21		1.56
			26		1.45
		10	3		1.39
			9		1.39
			18		1.39
			30		1.35
		11	7		1.50
			13		1.50
			21		1.50
			29		1.45
		12	7		1.42
			17		1.39
			28		1.34
	80	1	2		1.34
			11		1.31
			17		1.26
			23		1.26

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW REQUIRED BY MAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
-----	--	--	--	-----	-----
WS28	80	1	30	H	1.26
		2			1.23
		14			1.20
		22			1.28
		29			1.31
		3	6		1.31
		13			1.28
		21			1.31
		27			1.31
		4	10		1.31
		17			1.31
		25			1.31
		30			1.31
		5	7		1.28
		16			1.28
		22			1.31
		30			1.36
WS29	79	7	22		.20
		8	7		.16
		15			.16
		22			.14
		29			.13
		9	6		.10
		12			.10
		21			.08
		26			.09
		10	3		.08
		9			.08
		18			.08
		30			.09
		11	7		.08
		15			.09
		21			.09
		12	7	FROZE	
	80	1	17		.04
		2	8		.04
		3	21		.05
		5	7		.09
		16			.15

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN



TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW MEASURED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
W529	80	5	22		.31
			30		.50
W530	79	7	27		3.00
		9	6		3.50
		12	12		3.50
		20	20		3.50
		27	27		3.04
	10	3	3		3.00
		9	9		3.00
		18	18		3.00
		26	26		4.25
		30	30		4.00
	11	7	7		3.76
		16	16		3.52
	23	23	23		3.41
	12	5	5		3.29
		10	10		3.18
		19	19		3.07
		31	31		2.96
80	1	11	11		2.96
		18	18		3.02
	31	31	31		3.02
2	8	8	8		3.02
	15	15	15		3.02
	22	22	22		3.02
	29	29	29		2.96
3	6	6	6		2.96
	14	14	14		2.96
	21	21	21		3.02
	27	27	27		3.29
4	10	10	10		3.41
	17	17	17		3.58
	24	24	24		3.58
5	30	30	30		3.58
	7	7	7		3.50
	16	16	16		3.50
	22	22	22		3.50
	30	30	30		3.50

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW MEASURED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
WS31	79	8	16		1.41
		8	29		1.36
		9	6		1.41
		12	12		1.46
		21	21		1.53
		26	26		1.64
	10	3	3		1.82
		9	9		1.82
		18	18		1.94
		30	30		2.06
	11	7	7		2.06
		15	15		2.19
		21	21		2.19
		29	29		2.26
	12	7	7		2.33
		17	17		2.26
		28	28		2.13
	80	1	2		2.06
		11	11		2.00
		17	17		1.94
		23	23		1.94
		31	31		1.82
	2	8	8		2.00
		14	14		1.94
		22	22		1.94
		29	29		2.00
	3	6	6		2.00
		13	13		2.06
		21	21		2.19
		27	27		2.40
	4	10	10		2.19
		17	17		2.06
		25	25		2.00
		30	30		2.06
	5	7	7		2.06
		16	16		1.94
		22	22		1.88
		30	30		1.88
WS32	79	8	29		.21

DRY = SPRING DRY  
NOFLME = NO FLOW  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW REQUIRED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
WS32	79	9	6		.21
		12			.21
		20			.21
		26			.21
	10	3			.21
		8			.21
		14			.21
		30			.20
	11	7			.22
		13			.20
		21			.20
		29			.20
	12	5			.20
		14			.20
		20			.20
		27			.21
80	1	2			.20
		10			.20
		16			.20
		23			.20
		28			.20
	2	7			.21
		13			.20
		21			.21
		28			.22
	3	6			.22
		13			.21
		20			.22
		26			.22
	4	4			.22
		9			.20
		16			.20
		24			.20
	5	6			.21
		15			.21
		21			.21
		30			.23
WS33	79	8	15		1.02
		29			1.10

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW REQUIRED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
-----	--	--	--	-----	-----
WS33	79	9	6		1.05
			12		1.04
			21		1.04
			26		1.07
	10	3			1.04
		9			1.02
		16			1.02
		30			1.05
	11	7			1.12
		15			1.17
		21			1.17
		29			1.15
	12	7			1.12
		17			1.07
		28			1.10
80	1	2			1.07
		11			1.04
		17			1.07
		23			1.07
	2	30			1.10
		8			1.12
		14			1.02
		22			1.10
		29			1.00
	3	6			1.10
		13			1.10
		21			1.10
		27			1.12
	4	10			1.15
		17			1.20
		25			1.20
		30			1.45
	5	7			1.07
		16			1.10
		22			1.10
		30			1.12
WS34	79	8	29		.67
		9	6		.73
			12		.76

DRY = SPRING DRY  
NOFLME = NO FLOW  
- = LESS THAN



TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW REQUIRED BY MAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
WS34	79	9	20		.76
		10	3		.78
		10	8		.80
		10	10		.80
		11	7		.78
		11	7		.73
		11	7		.69
		11	7		.69
		11	7		.71
		11	7		.69
		11	7		.67
		11	7		.67
		11	7		.65
		11	7		.63
		11	7		.63
		11	7		.67
		11	7		.67
		11	7		.63
		11	7		.63
		11	7		.61
		11	7		.61
		11	7		.65
		11	7		.63
		11	7		.54
		11	7		.54
		11	7		.54
		11	7		.60
		11	7		.60
		11	7		.60
		11	7		.60
		11	7		.61
		11	7		.64
WS35	79	7	3		1.62
		8	14		.99
		8	21		.92
		8	28		.87

DRY = SPRING DRY  
NOFLOW = NO FLUME  
- = LESS THAN

TABLE 2.2.1.2-2 (Continued)

CH-TRACT  
WATER FLOW REQUIRED BY WAP  
SPRINGS AND SEEPS  
FOR SAMPLE DATE SHOWN

SPRING	YR	MO	DAY	STATUS	FLOW (CFS)
-----	--	--	--	-----	-----
WS35	79	9	5		.78
			11		.73
			18		.69
			24		.65
	10	1			.58
			9		.56
			17		.56
			24		.52
			11		.54
			12		.48
			12		.41
	80	1	22		.34
		2	27		.25
		3	28		.22
		4	29		1.22
		5	23		1.74
WS36	80	2	29		2.07
		3	5		1.94
			13		1.94
			18		2.19
			26	NS	
		4	3		2.39
			14		2.19
		5	2	NOFLME	
			9	NOFLME	
			29	NOFLME	

DRY = SPRING DRY  
NOFLME = NO FLUME  
- = LESS THAN

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### 2.2.1.3 Alluvial Wells

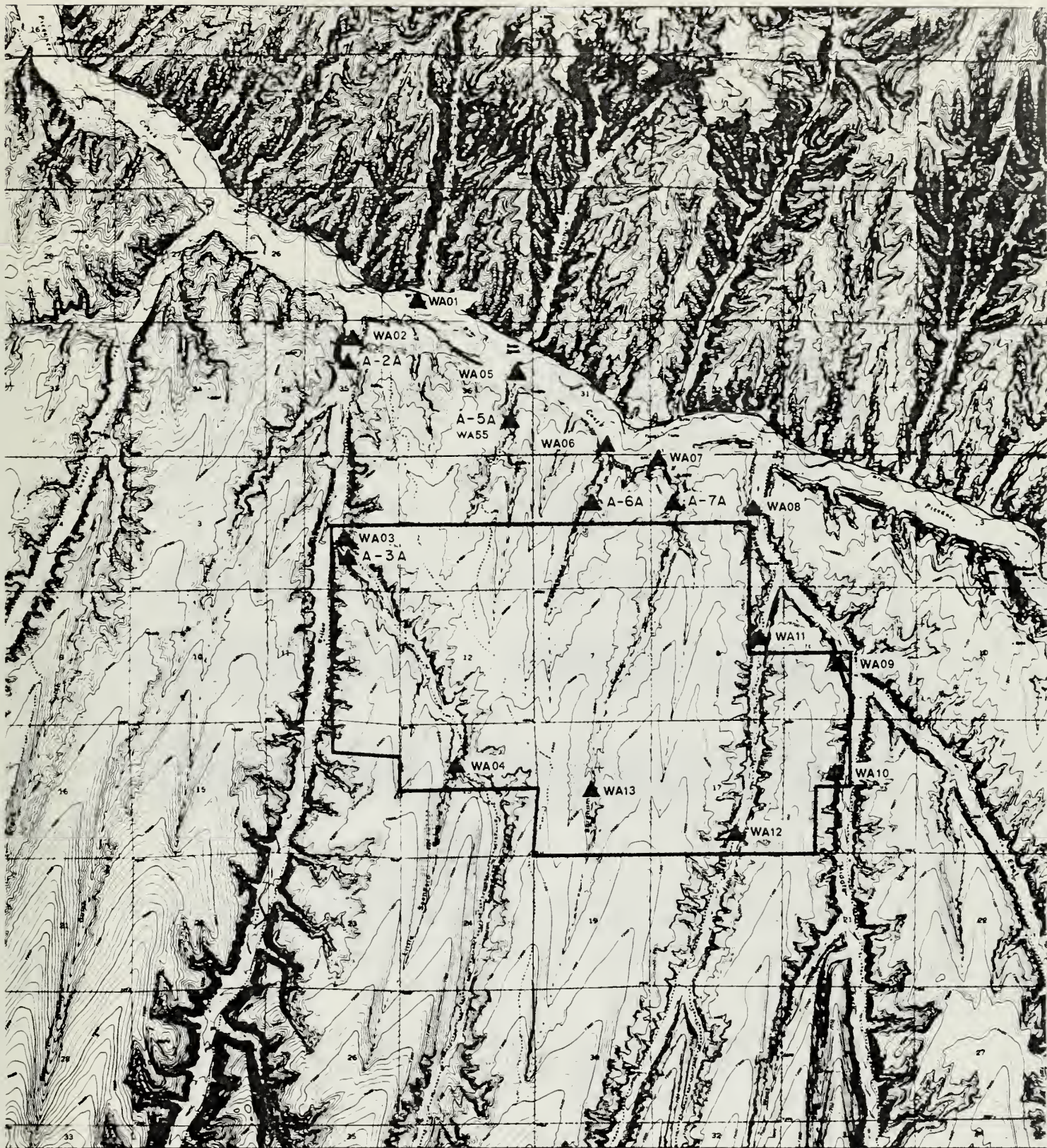
Water levels data for the alluvial wells shown in Figure 2.2.1.3-1 are reported as follows:

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Figure 2.2.1.3-1	<u>DMP Requirements</u> Alluvial Aquifer Monitoring Network	I-83
Table 2.2.1.3-1	Water levels and Field Measurements for Alluvial Wells	I-84
Table 2.2.1.3-2	Index to Hand Plots of Water levels in Alluvial Wells	I-89
Table 2.2.1.3-3	Index to Stevens Recorder data for Alluvial Wells	I-104

An attempt has been made to refer to all stations by their four-digit computer station codes. For additional information on these codes refer to Section 4.0.

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ALLUVIAL AQUIFER MONITORING NETWORK

Figure 2.2.1.3 - I



TABLE 2.2.1.3-1

CB-TRACT  
WATER LEVELS AND FIELD MEASUREMENTS  
ALLUVIAL WELLS  
FOR SAMPLE DATE SHOWN

WELL	YR	MO	DAY	STATUS	MEASURING PT ELEV (FT)	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
-----										
WA01	79	1	16		6282.2	6238.0	8.5	7.6	2.3	1500.0
		2	13		6282.2	6235.3	8.0	7.2	3.1	1450.0
		3	16		6282.2	6235.2	9.0	.0	3.6	1700.0
		4	9		6282.2	6235.8	10.0	7.7	3.2	1475.0
		6	3		6282.2	6240.7	12.5	7.0	7.8	1400.0
		7	17		6282.2	6240.1				
		8	19		6282.2	6236.3				
		10	8		6282.2	6237.3	22.0	7.5	2.9	1750.0
		1	4		6282.2	6236.1				
		2	6		6282.2	6236.0	12.5	7.6	2.5	1700.0
		27			6282.2	6233.8	7.0	7.5	7.0	1600.0
		4	2		6282.2	6235.9	7.0	7.4	4.2	1600.0
		28			6282.2	6236.1				
WA02	79	5	21		6282.2	6238.2	18.5	7.4	6.0	1830.0
		1	16	PLUGGD	6284.5					
		2	13	PLUGGD	6284.5					
		3	16	PLUGGD	6284.5					
		4	9	PLUGGD	6284.5					
		6	20		6284.5	6269.5	13.5	7.7	4.0	1000.0
		7	18		6284.5	6268.4	14.0	7.6	6.0	1100.0
		10	11		6284.5	6273.8	16.8	7.8	4.6	1200.0
		1	3		6284.5	6271.8				
		2	5		6284.5	6271.3	9.5	7.5	2.8	1000.0
		27			6284.5	6271.1	7.0	6.8	12.0	220.0
		4	2		6284.5	6270.6	5.0	6.8	3.2	220.0
		29			6284.5	6270.4				
WA03	79	5	21		6284.5	6272.9	17.5	7.2	5.9	980.0
		1	19		6448.6	6365.0	5.0	7.8	5.8	1300.0
		2	13		6448.6	6364.4	7.0	8.0	5.1	1300.0
		3	19		6448.6	6365.8	8.0	.0	3.6	1350.0
		4	9		6448.6	6365.2	9.0	7.8	4.2	1325.0
		6	14		6448.6	6370.0	11.5	7.2	5.6	1300.0
		7	18		6448.6	6372.2	.0	7.3	.0	1200.0
		10	11		6448.6	6374.2	18.0	7.4	5.2	1250.0
		1	3		6448.6	6373.2				
		2	5		6448.6	6370.4	11.0	7.3	4.8	1200.0

PLUGGD = WELL PLUGGED  
 DRY = WELL DRY  
 FLOWING = WELL FLOWING  
 INACCESSIBLE = WELL INACCESSIBLE

TABLE 2.2.1.3-1 (Continued)

CB-TRACT WATER LEVELS AND FIELD MEASUREMENTS ALLUVIAL WELLS FOR SAMPLE DATE SHOWN										
WELL	YR	MO	DAY	STATUS	MEASURING PT ELEV (FT)	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WA03	80	2	25		6448.6	6372.5	7.0	7.5	13.4	1300.0
		4	2		6448.6	6371.6	5.0	7.5	4.5	1200.0
		29			6448.6	6371.0				
		5	21		6448.6	6371.0	18.0	7.2	5.6	1550.0
WA04	79	1	19	DRY						
		2	14	DRY						
		3	16	DRY						
		4	9	DRY						
		6	14	DRY						
		7	18	DRY						
		10	11	DRY						
		1	3	DRY						
		2	12	DRY						
		4	2	DRY						
WA05	79	5	15	DRY						
		2	15		6345.0	6326.3	8.0	7.8	3.8	1350.0
		3	19	INACCS	6345.0					
		4	9		6345.0	6325.9	8.5	7.8	3.7	1350.0
		6	13		6345.0	6328.0	12.0	7.4	7.4	650.0
		7	2		6345.0	6327.5				
		10	12		6345.0	6327.2	18.5	7.6	4.6	1175.0
		1	4		6345.0	6327.4				
		2	12		6345.0	6327.6	7.9	7.4	3.8	1390.0
		3	6		6345.0	6324.3	7.0	7.7	4.0	1300.0
WA06	79	5	1		6345.0	6325.0				
		15			6345.0	6330.1				
		24			6345.0	6329.4	16.0	7.3	5.0	1470.0
		1	19		6360.0	6326.8	8.5	7.8	4.9	1250.0
		2	15		6360.0	6325.8	8.5	7.8	4.1	1300.0
		3	19		6360.0	6328.3	8.5		2.8	1200.0
		4	9		6360.0	6327.1	9.5	7.8	3.8	1325.0
		6	14		6360.0	6333.7	14.0	7.4	3.2	1400.0
		7	20		6360.0	6334.0	15.0	7.3	5.8	1350.0
		8	19		6360.0	6329.9				
WA06	79	10	9		6360.0	6327.1	13.5	8.2	9.5	1400.0

PLUGGD = WELL PLUGGED

DRY = WELL DRY

FLOWING = WELL FLOWING

INACCS = WELL INACCESSIBLE

TABLE 2.2.1.3-1 (Continued)

CH-TRACT WATER LEVELS AND FIELD MEASUREMENTS ALLUVIAL WELLS FOR SAMPLE DATE SHOWN										
WELL	YR	MO	DAY	STATUS	MEASURING PT ELEV (FT)	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
----	---	---	---	-----	-----	-----	-----	---	-----	-----
WA06	80	1	4		6360.0	6324.1				
		2	12		6360.0	6325.3	9.0	7.4	2.8	1300.0
		26			6360.0	6325.3	8.0	8.2	9.4	80.0
		4	1		6360.0	6325.6	12.0	8.3	5.0	260.0
		5	23		6360.0	6331.1	16.5	7.2	7.8	970.0
WA07	79	1	19	DRY	6383.8					
		2	13	DRY	6383.8					
		3	16	DRY	6383.8					
		4	9	DRY	6383.8					
		6	14		6383.8	6355.8	12.0	7.6	7.5	1000.0
		7	26		6383.8	6355.5	16.0	7.6	7.2	1100.0
		8	19		6383.8	6350.9				
		10	9		6383.8	6351.9	11.0	8.1	10.1	1000.0
		1	4		6383.8	6350.5				
		2	12	DRY	6383.8					
		26		DRY	6383.8					
		4	1	DRY	6383.8					
WA08	79	1	19		6409.0	6380.3	8.5	7.8	4.6	1150.0
		2	15		6409.0	6382.2	8.5	7.8	4.2	1225.0
		3	19	INACCS	6409.0					
		4	10		6409.0	6383.7	9.0	7.8	4.1	1300.0
		6	21		6409.0	6386.9	10.0		6.2	1200.0
		8	24		6409.0	6385.0				
		10	15		6409.0	6385.6	12.0	7.7	8.3	1200.0
		1	3		6409.0	6386.1				
		2	12	INACCS	6409.0					
		3	5		6409.0	6387.3	7.5	7.7	7.4	1200.0
		4	3		6409.0	6387.3	6.6	7.3	4.6	1500.0
		5	1		6409.0	6384.0				
WA09	79		21		6409.0	6385.4	18.0	7.3	5.4	1390.0
		1	19		6540.2	6491.2	9.0	7.9	5.9	1100.0
		2	15		6540.2	6499.9	8.0	7.9	4.9	1175.0
		3	20		6540.2	6491.5	5.5		5.6	1000.0
		4	10		6540.2	6483.0	8.5	7.9	3.9	1200.0
		6	21		6540.2	6492.3	14.0		8.9	1000.0

PLUGGED = WELL PLUGGED  
 DRY = WELL DRY  
 FLOWING = WELL FLOWING  
 INACCS = WELL INACCESSIBLE

TABLE 2.2.1.3-1 (Continued)

CH-TRACT										
WATER LEVELS AND FIELD MEASUREMENTS										
ALLUVIAL WELLS										
FOR SAMPLE DATE SHOWN										
WELL	YR	MO	DAY	STATUS	MEASURING PT ELEV (FT)	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
----	---	--	--	-----	-----	-----	-----	---	-----	-----
WA09	79	8	24		6540.2	6492.0				
		10	18		6540.2	6488.7	13.5	7.6	8.2	1100.0
	80	1	4		6540.2	6493.4				
		2	13		6540.2	6493.3	8.5	7.7	8.7	1100.0
		29			6540.2	6493.3	5.0	7.9		1000.0
		4	3		6540.2	6493.3	8.0	7.4	8.0	1000.0
		29			6540.2	6491.2				
WA10		5	23		6540.2	6491.2	17.5	7.3	6.2	1450.0
	79	1	19	DRY	6610.6					
		2	14	DRY	6610.6					
		3	19	INACCS	6610.6					
		4	10	DRY	6610.6					
		6	20		6610.6	6564.5	13.5	7.5	8.0	1200.0
		7	24		6610.6	6559.7				
WA11		10	19		6610.6	6564.0	13.0	7.6	9.5	1400.0
	80	1	3		6610.6	6566.9				
		2	13	DRY	6610.6					
		4	3	DRY	6610.6					
	79	1	19		6503.8	6448.4	5.0	7.5	7.1	1400.0
		2	14		6503.8	6446.2	7.5	7.6	5.2	1375.0
		3	20		6503.8	6450.2	6.0		5.1	1300.0
WA12		4	10		6503.8	6449.1	9.0	7.6	5.0	1350.0
		6	20		6503.8	6448.1	13.0		10.4	1400.0
		7	30		6503.8	6448.1				
		10	19		6503.8	6444.2	15.0	7.7	10.2	1400.0
	80	2	13	PLUGGD	6503.8					
		4	3	PLUGGD	6503.8					
	79	1	19		6691.8	6634.5	6.5	7.7	5.2	1300.0
WA12		2	14		6691.8	6633.2	7.0	7.9	5.1	1325.0
		3	20		6691.8	6636.3	7.0		5.8	1425.0
		4	10		6691.8	6633.9	10.0	7.7	4.8	1400.0
		6	20		6691.8	6635.2	12.0	.0	8.6	1400.0
		7	30		6691.8	6634.9				
		10	15		6691.8	6636.5	15.5	7.5	6.2	1400.0
	80	1	3		6691.8	6645.3				

PLUGGD = WELL PLUGGED  
 DRY = WELL DRY  
 FLOWING = WELL FLOWING  
 INACCS = WELL INACCESSIBLE



TABLE 2.2.1.3-1 (Continued)

CB-TRACT WATER LEVELS AND FIELD MEASUREMENTS ALLUVIAL WELLS FOR SAMPLE DATE SHOWN										
WELL	YR	MO	DAY	STATUS	MEASURING PT ELEV (FT)	DEPTH (FT)	WATER TEMP (C)	PH	DISS OXYGEN (MG/L)	SPEC COND (UMHOS)
WAL2	80	2	13	INACCS	6691.8					
		3	3		6691.8	6636.3		7.6		1400.0
		4	3		6691.8	6636.5	10.0	7.1	7.3	1170.0
		5	20		6691.8	6637.7	20.0	7.5	7.1	1720.0
WAL3	79	1	0	DRY						
		2	14	DRY						
		3	16	DRY						
		4	10	DRY						
		6	20	DRY						
		7	30	DRY						
WAS5	79	1	3	DRY						
		2	13	DRY						
		4	3	DRY						
		7	31		6460.0	6432.2	20.0	8.0	.5	1100.0
80		1	4		6460.0	6443.0				
		2	22		6460.0	6442.0				
		5	23	DRY	6460.0					

PLUGGD = WELL PLUGGED

DRY = WELL DRY

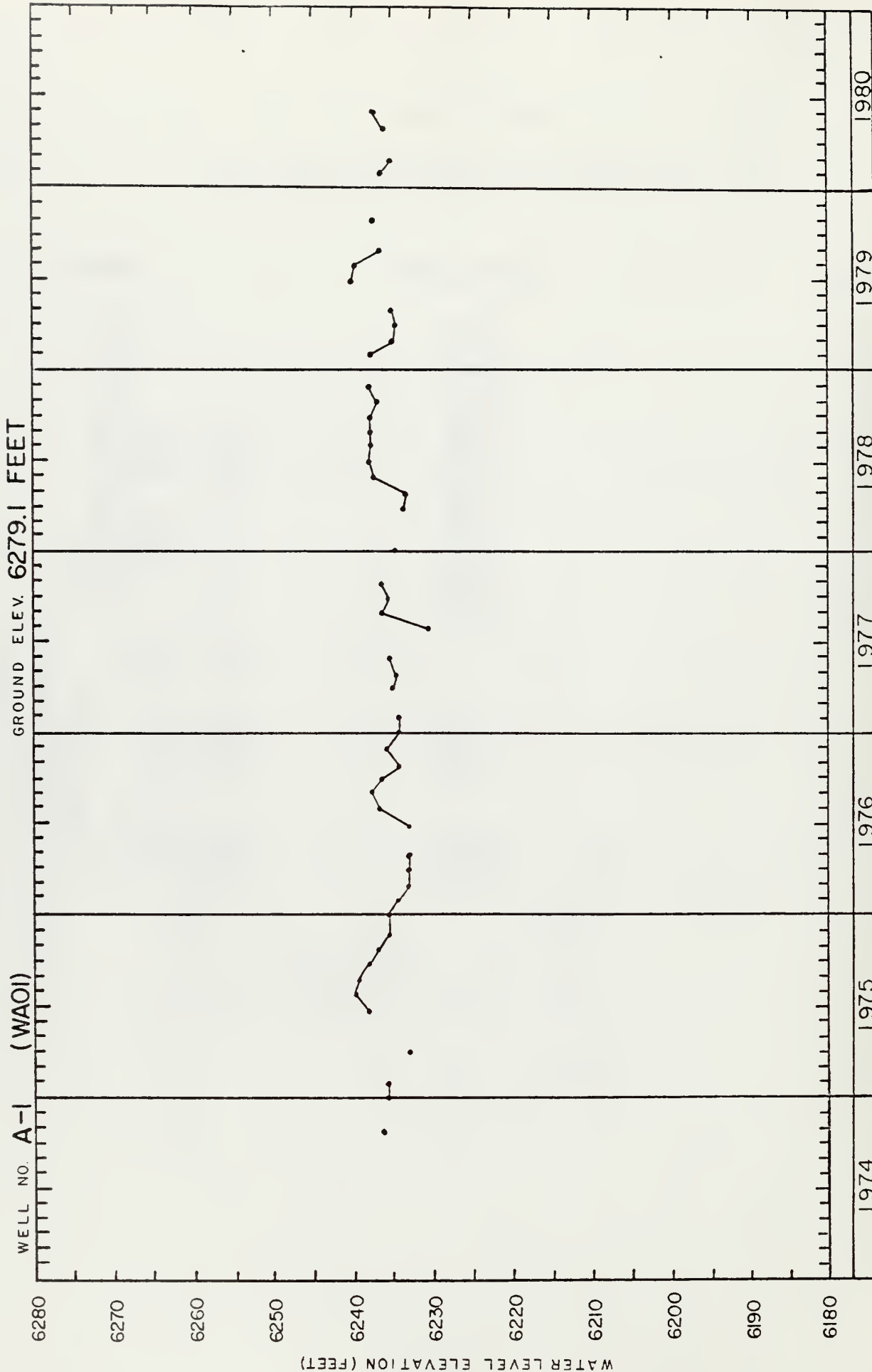
FLOWING = WELL FLOWING

INACCS = WELL INACCESSIBLE

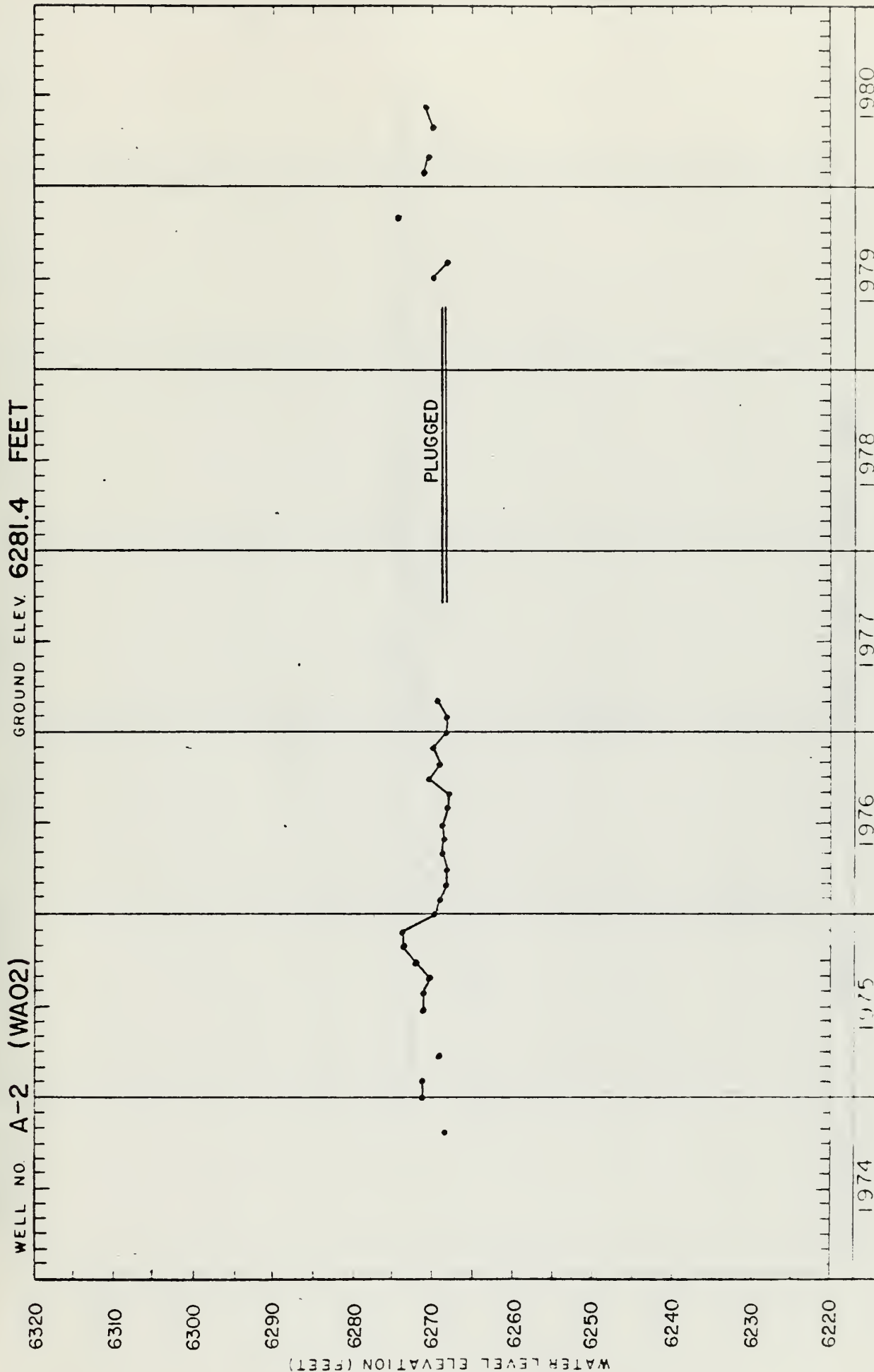
TABLE 2.2.1.3-2

## HAND PLOTS OF WATER LEVELS IN ALLUVIAL WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
A-1	WA01	I-90
A-2	WA02	I-91
A-3	WA03	I-92
A-4	WA04	I-93
A-5	WA05	I-94
A-5A	WA55	I-95
A-6	WA06	I-96
A-7	WA07	I-97
A-8	WA08	I-98
A-9	WA09	I-99
A-10	WA10	I-100
A-11	WA11	I-101
A-12	WA12	I-102
A-13	WA13	I-103

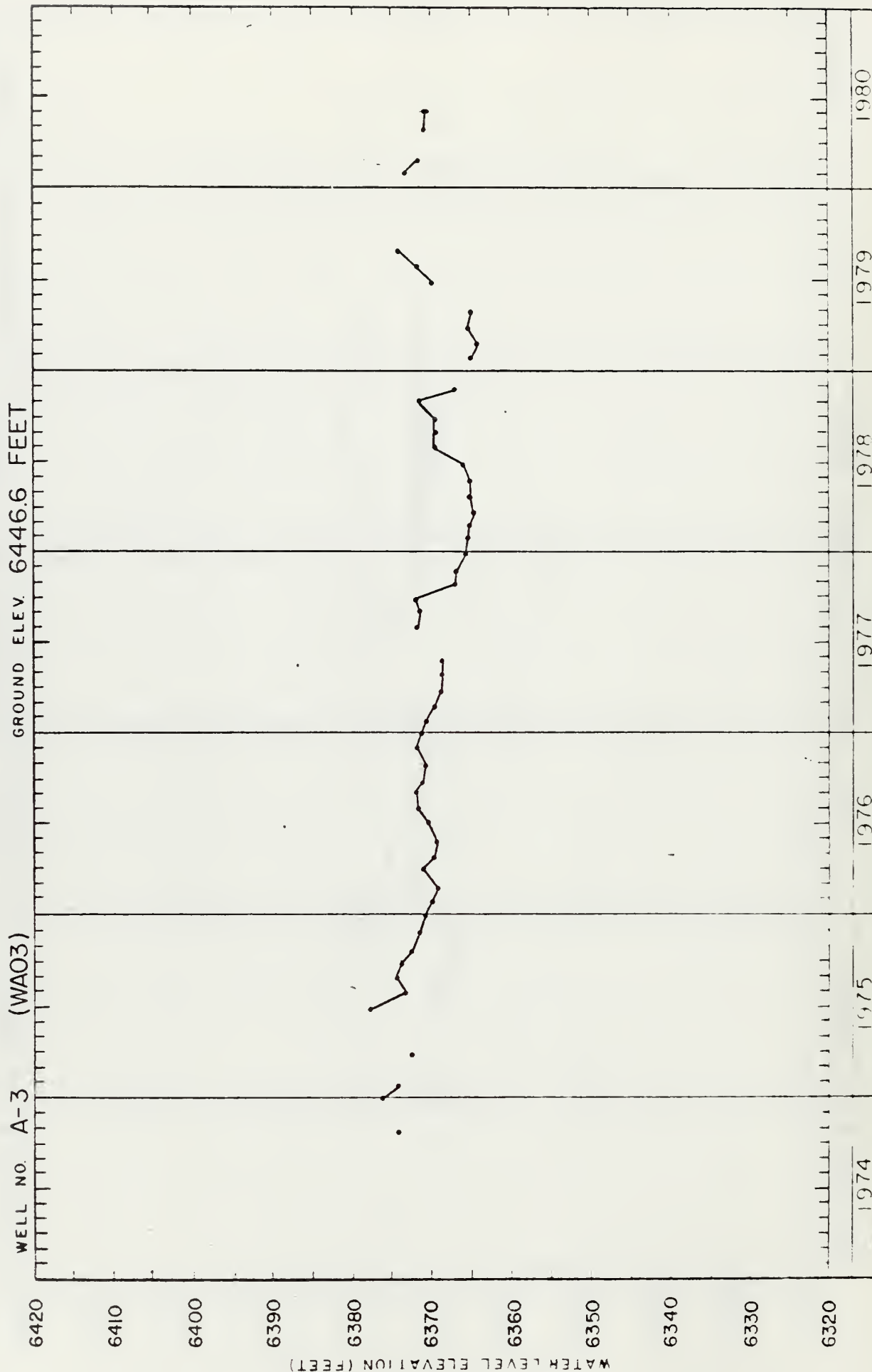


WATER LEVEL DATA



WATER LEVEL DATA





WATER LEVEL DATA

GROUND ELEV

WELL NO A-4 (WAO4)

1974

1979

1978

1977

1976

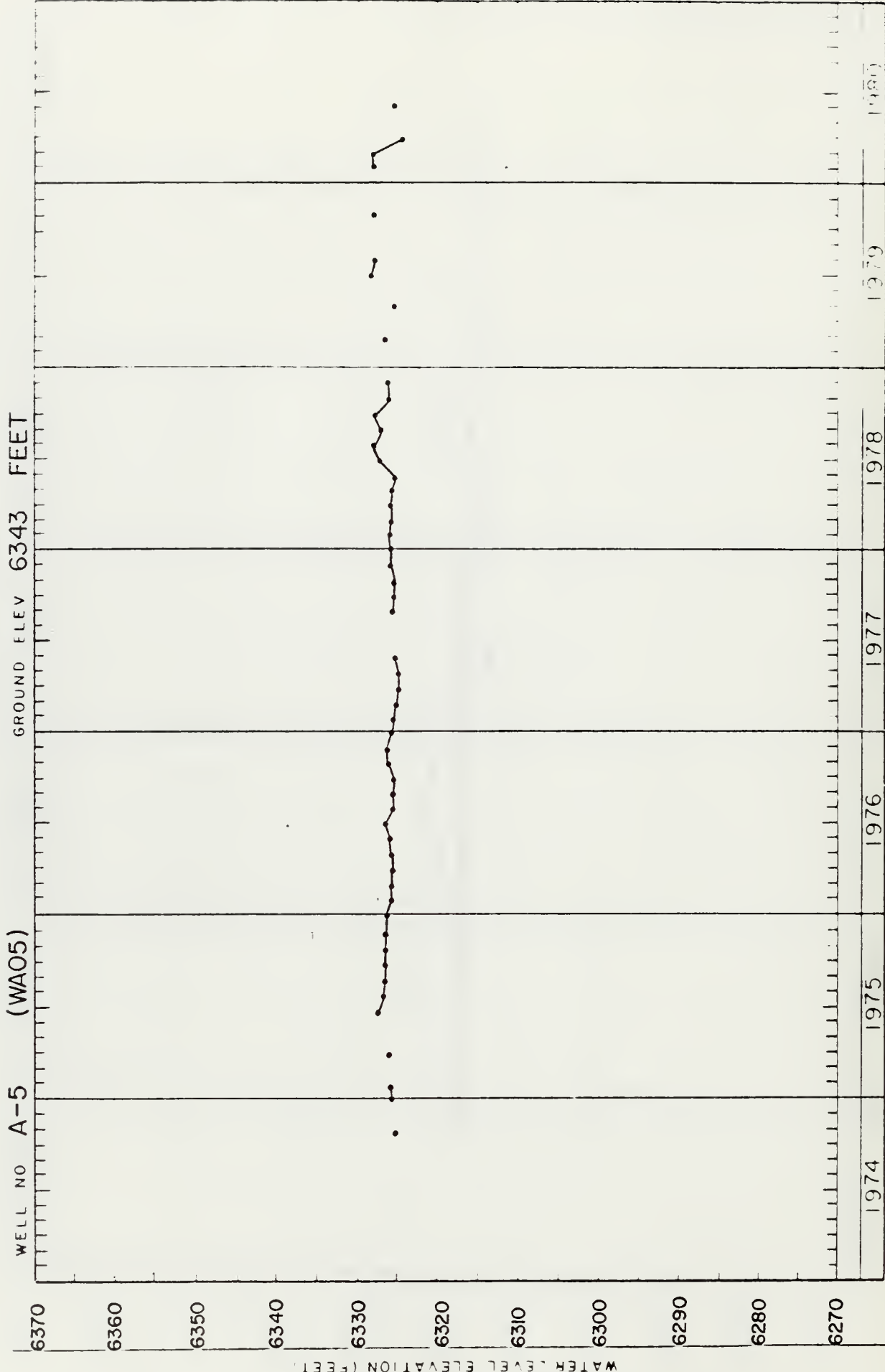
1975

1974

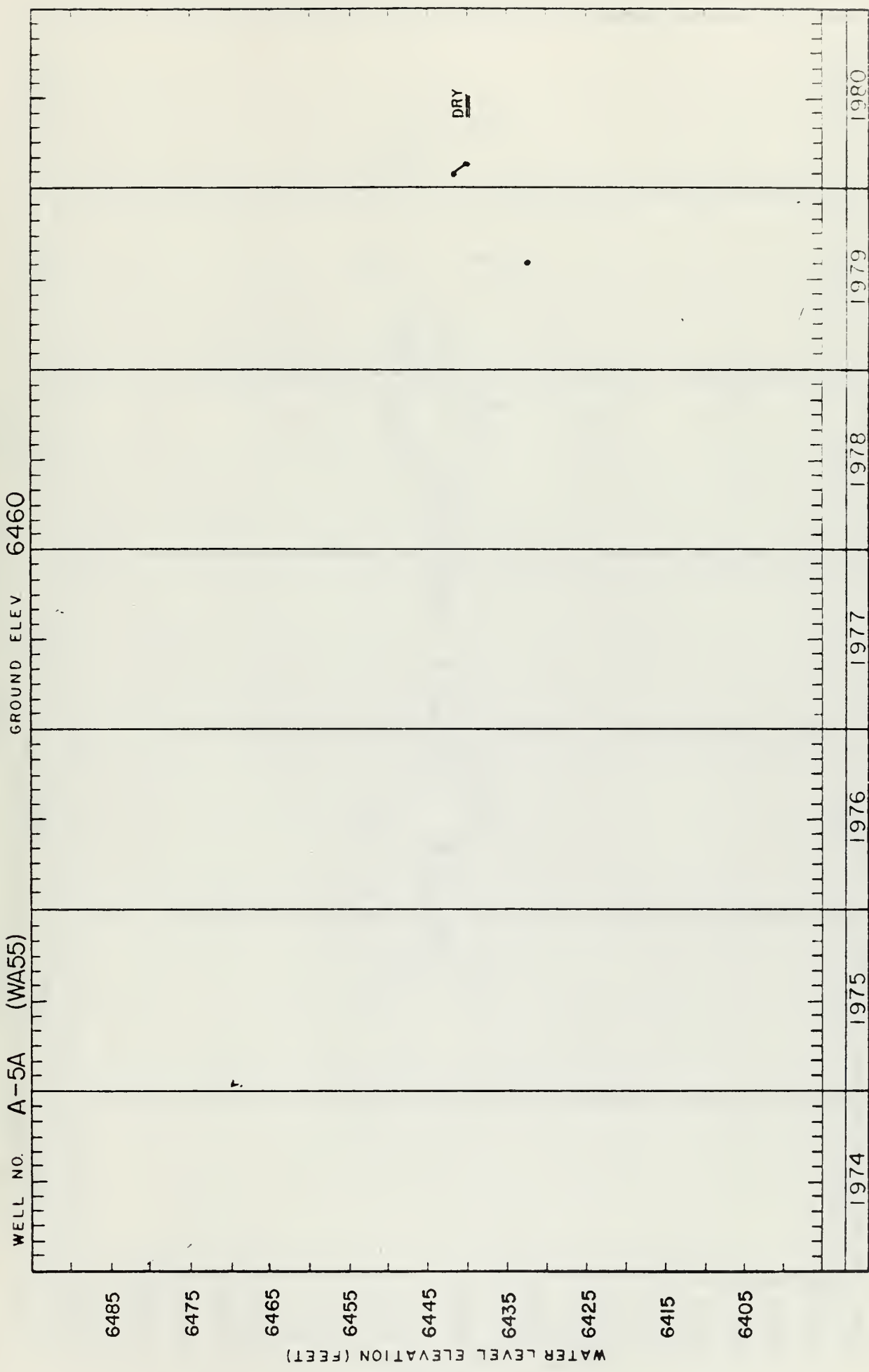
DRY

WATER LEVEL DATA

WATER LEVEL ELEVATION (FEET)

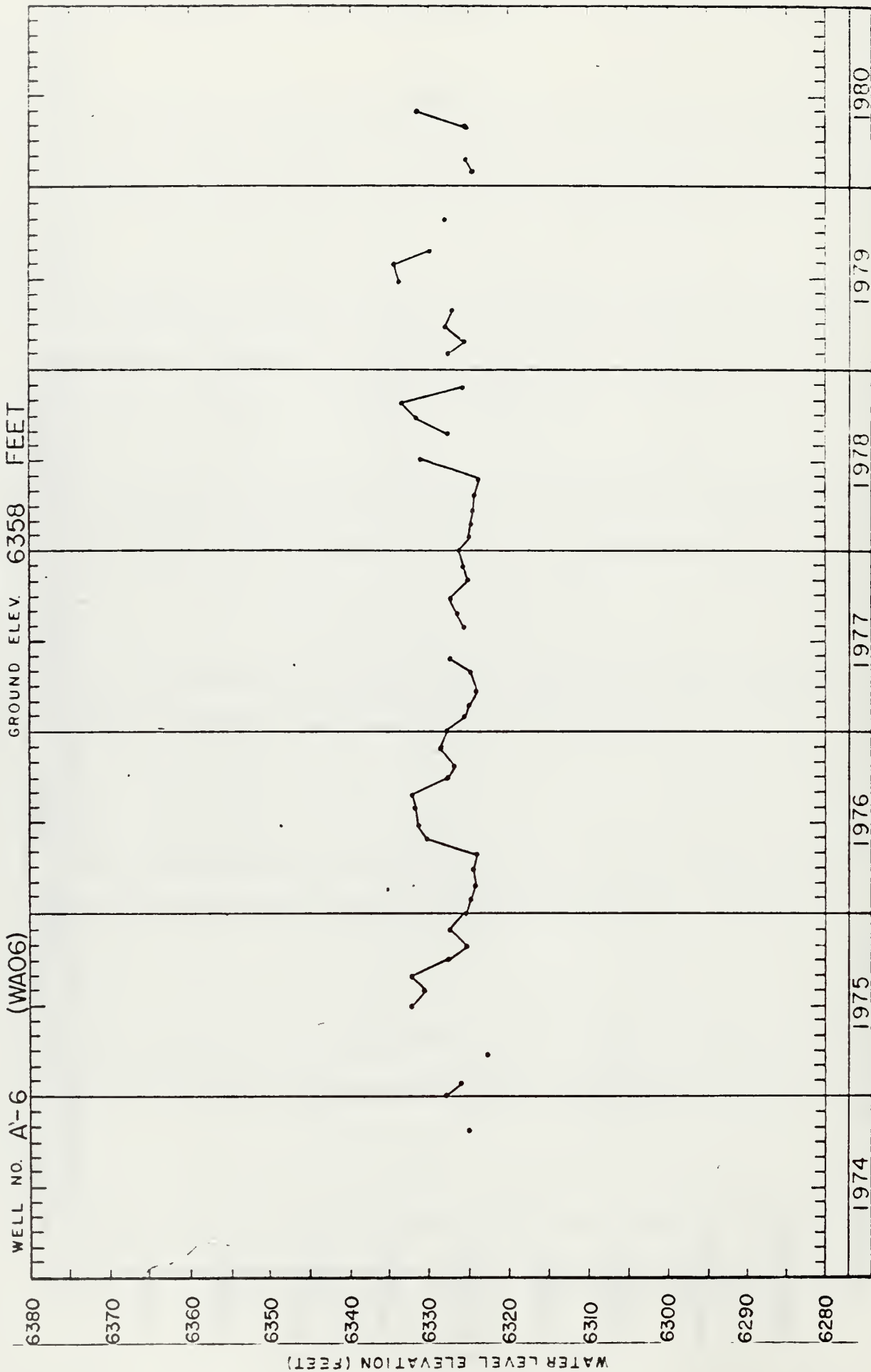


WATER LEVEL DATA



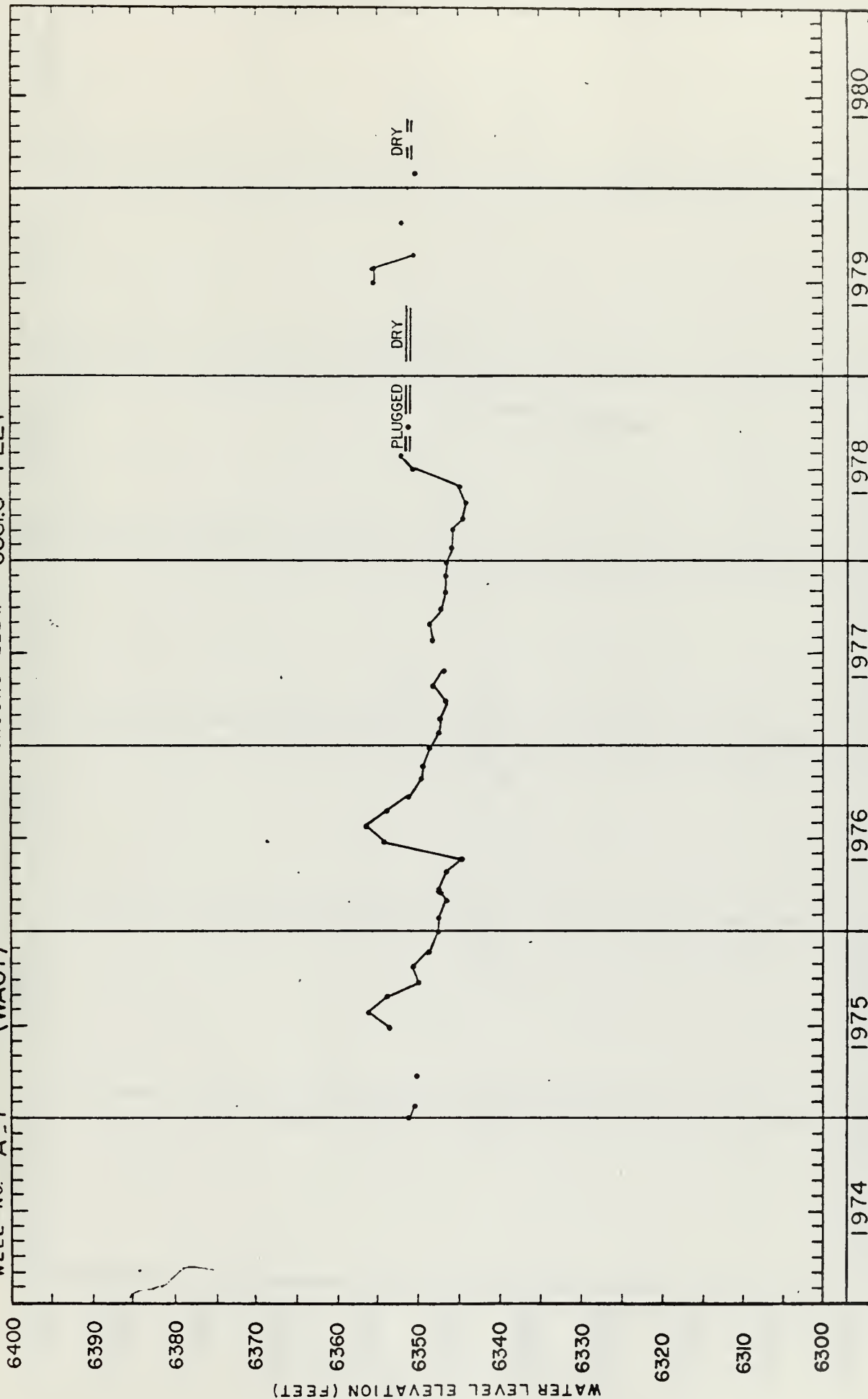
WATER LEVEL DATA



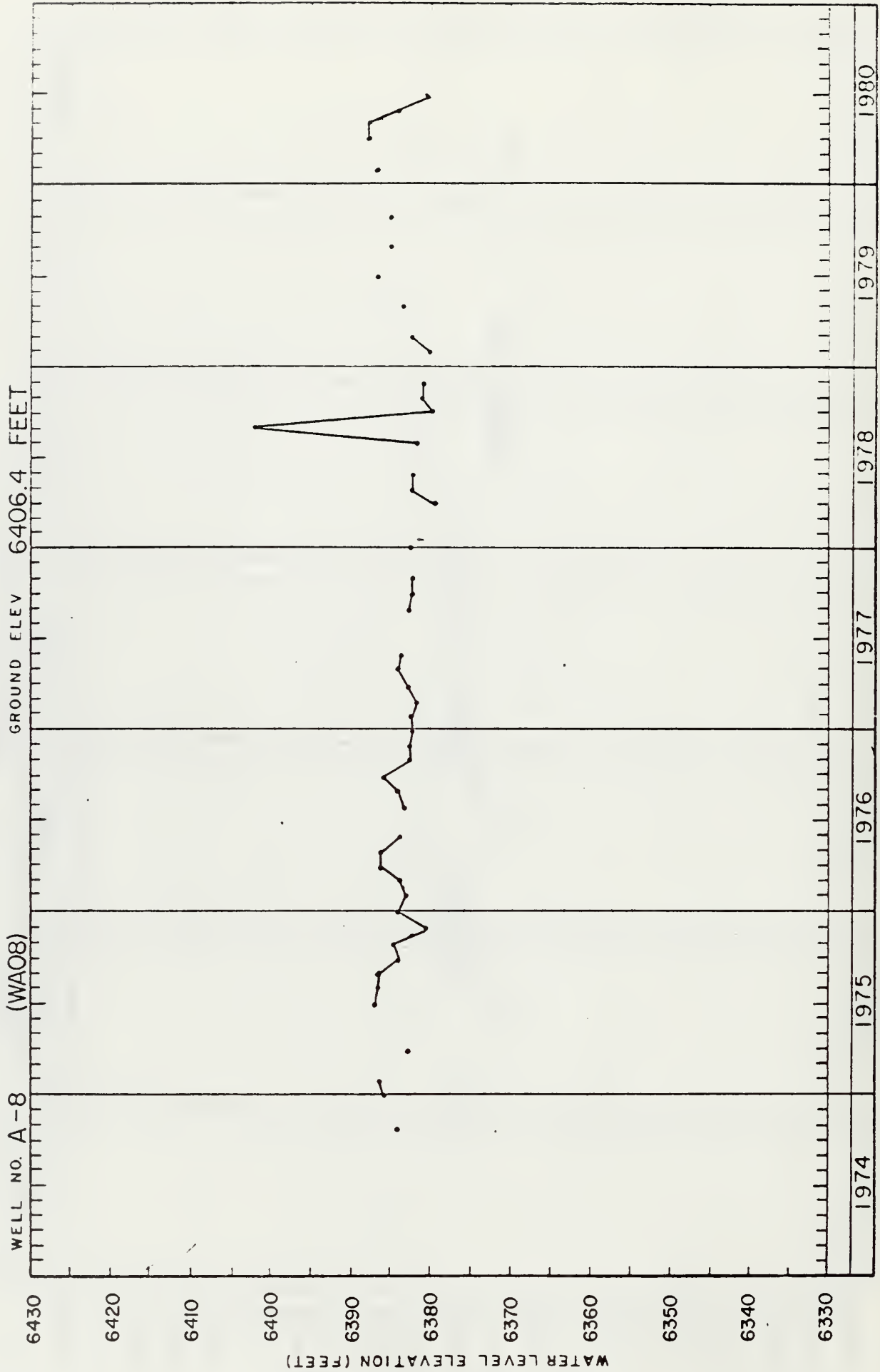


WATER LEVEL DATA

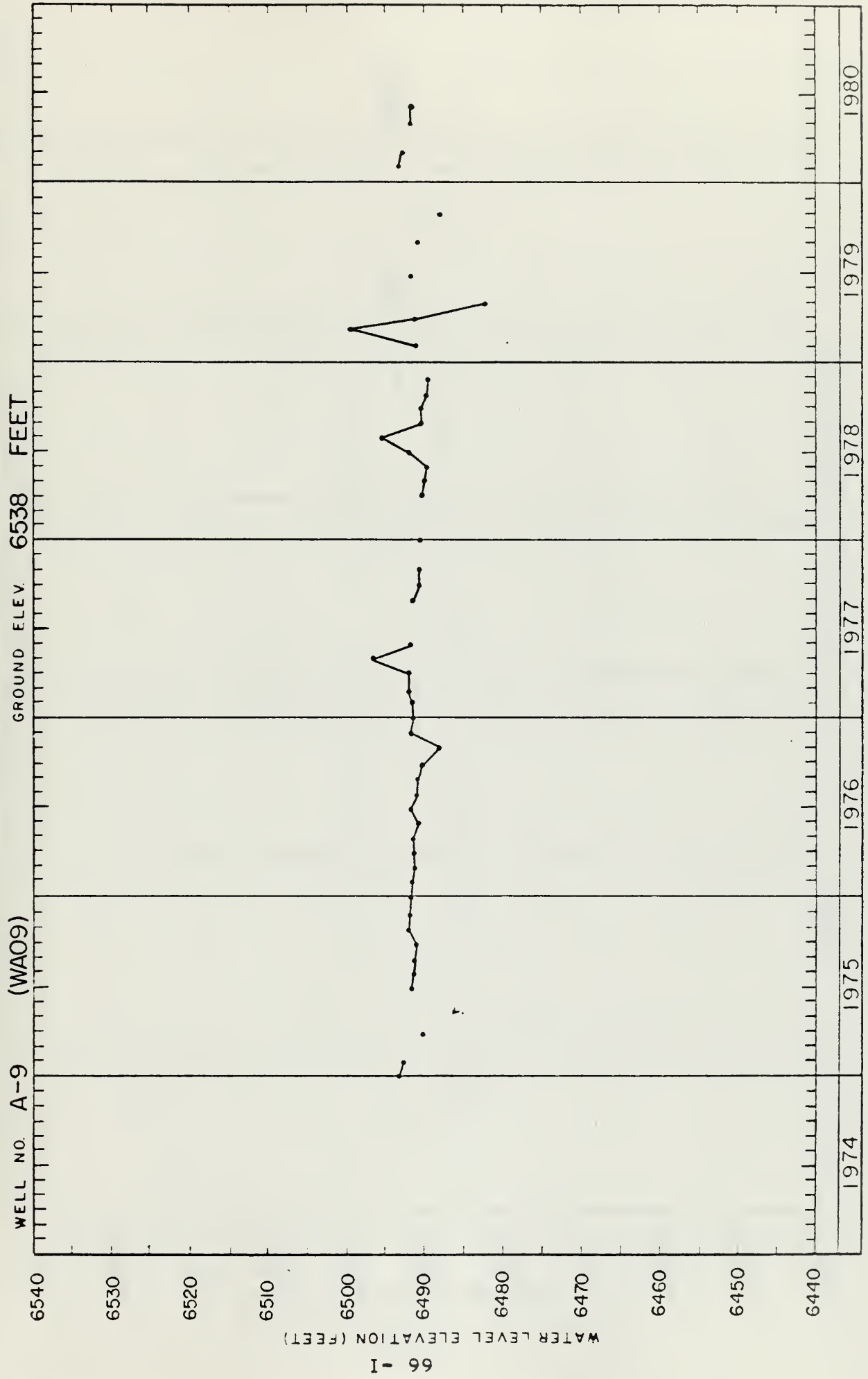
WELL NO. A-7 (WA07) GROUND ELEV. 6381.8 FEET



WATER LEVEL DATA



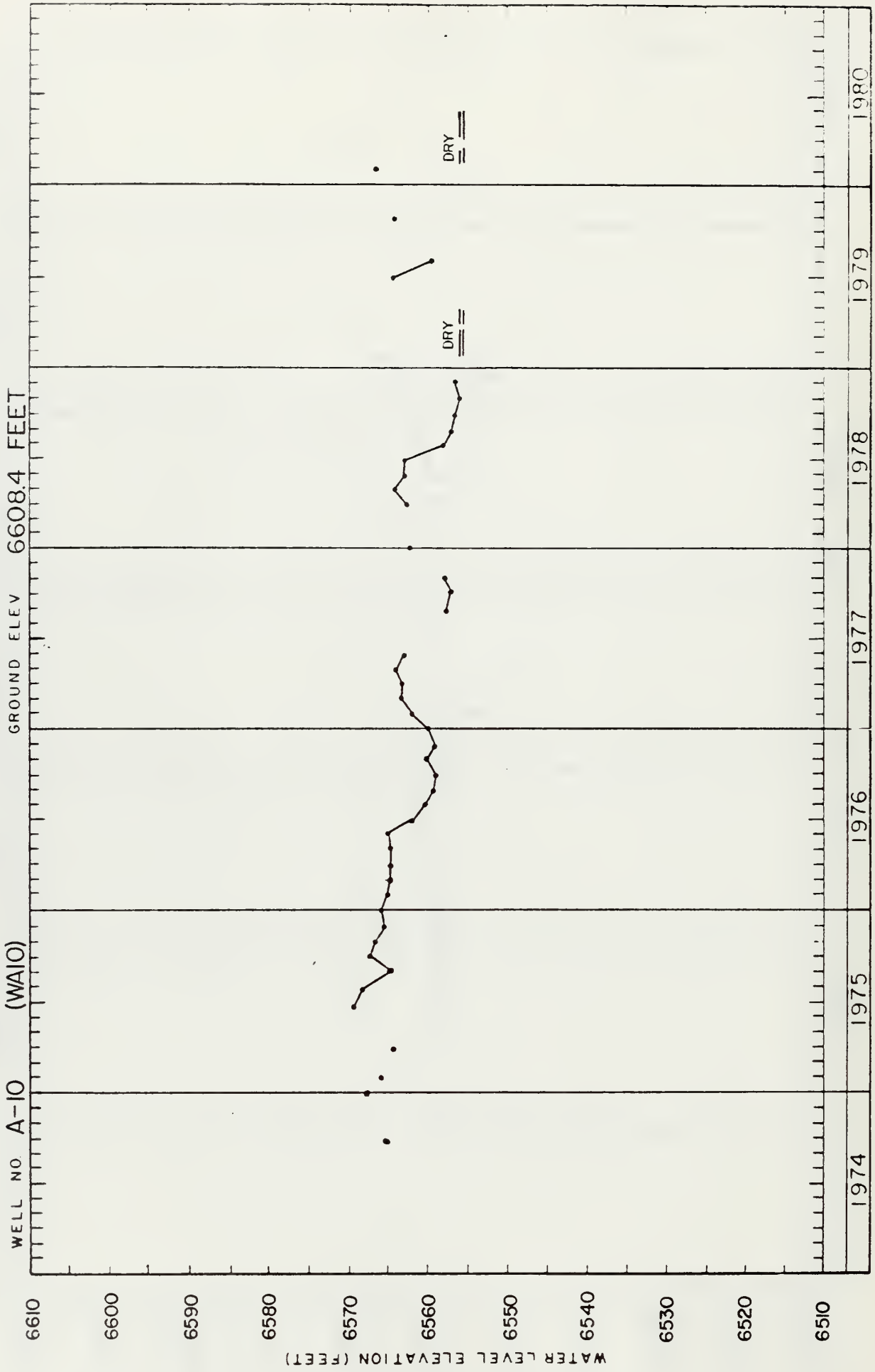
WATER LEVEL DATA



WATER LEVEL DATA

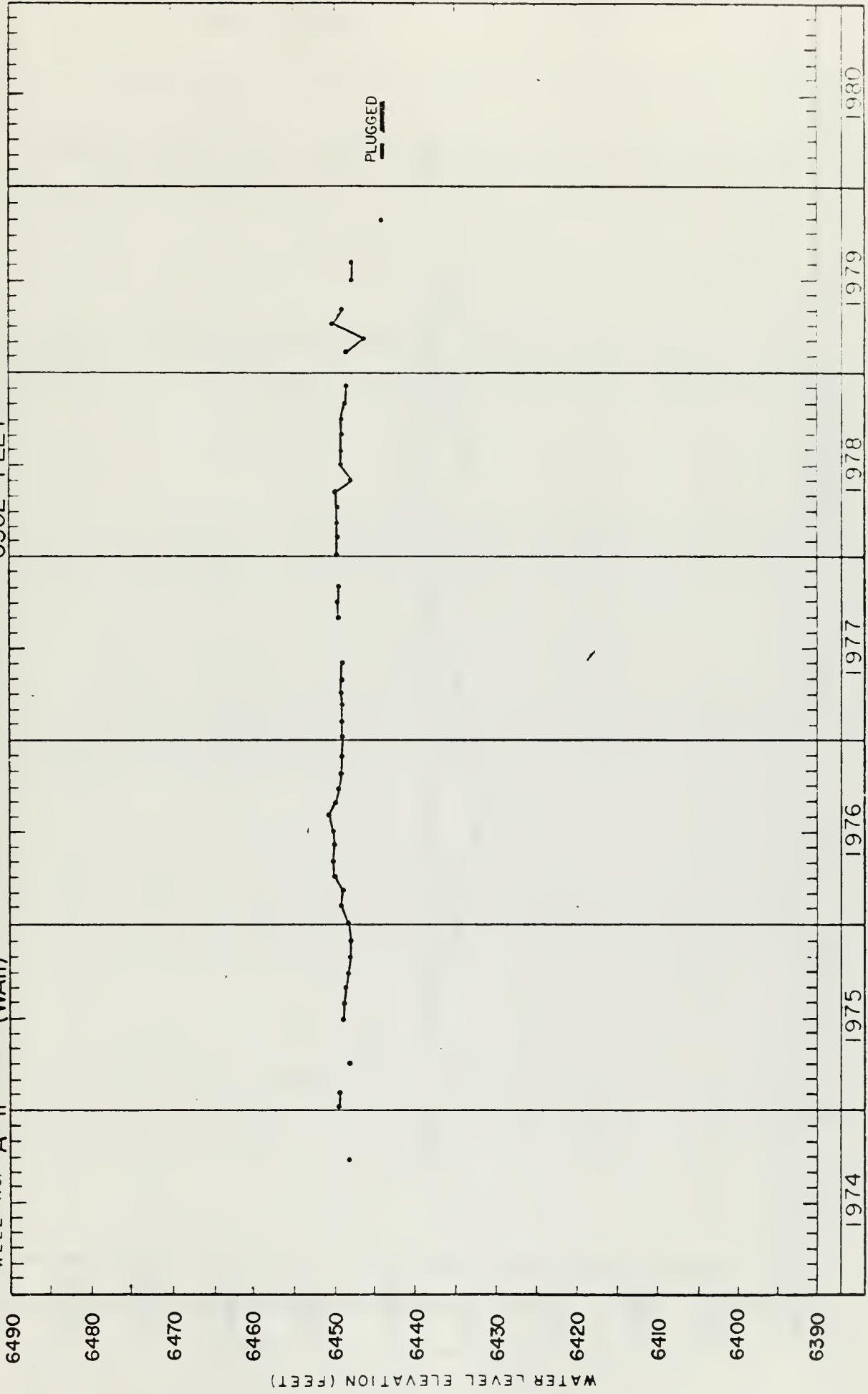


WELL NO. A-10 (WA10) GROUND ELEV. 6608.4 FEET



WATER LEVEL DATA

WELL NO. A-II (WALL) GROUND ELEV 6502 FEET



WATER LEVEL DATA

WELL NO. A-12 (WAI2)

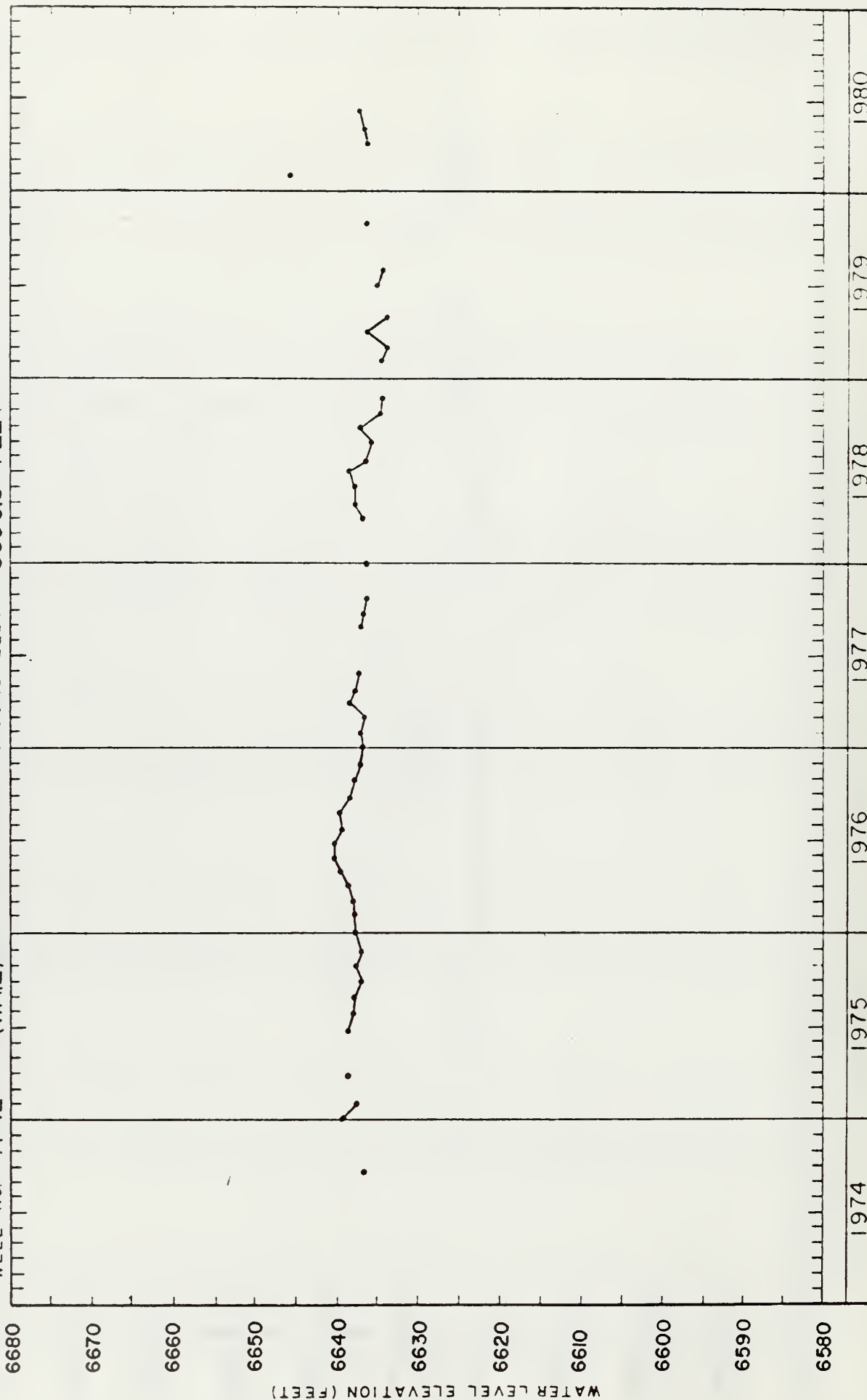
GROUND ELEV. 6690.3 FEET

WELL NO. A-12 (WAI2)

GROUND ELEV. 6690.3 FEET

WELL NO. A-12 (WAI2)

GROUND ELEV. 6690.3 FEET



WATER LEVEL DATA

WELL NO. A-13 (WAI3)

GROUND ELEV.

DRY

WATER LEVEL ELEVATION (FEET)

I-103

1980

1979

1978

1977

1976

1975

1974

WATER LEVEL DATA



TABLE 2.2.1.3-3

Index to Stevens Recorder Data for Alluvial Wells

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
A-1	WA01	I-105
A-2	WA02	I-107
A-3	WA03	I-109
A-5	WA05	I-111
A-6	WA06	I-113
A-7	WA07	I-115
A-8	WA08	I-117
A-9	WA09	I-119
A-10	WA10	I-121
A-11	WA11	I-123
A-12	WA12	I-124

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA01

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	44.20	44.15	46.96	46.67	46.67	45.17	40.44	40.98	45.83	45.83	45.61	45.61
2	45.80	↑	↑	↑	↑	44.88	40.43	↑	↑	↑	↑	↑
3	↑					44.86	40.42					
4						44.86	40.42					
5						44.85	40.42					
6						44.05	40.45			↓		45.61
7						43.94	40.54			45.83		46.67
8						43.86	40.61			45.02		46.67
9						43.84	40.68			45.02		46.49
10						43.63	40.68			45.02		46.45
11		↓				43.50	40.71			45.02		↑
12		44.15	↓			43.32	40.79			45.13		
13		46.93	46.96		↓	43.23	40.93			45.13		
14	↓	46.91	46.97		46.67	43.13	40.93			45.13		
15	45.80	46.95	46.97		46.66	43.11	41.02			45.13		
16	44.26	46.91	46.97		46.66	43.27	41.02			45.14		
17	44.15	46.89	46.87		46.66	43.35	41.02			45.54		
18	↑	46.88	46.78		46.64	43.46	40.99	↓		45.54		
19		46.94	46.68		46.62	43.75	40.98	40.98		45.64		
20		46.95	46.67		46.56	43.88	40.98	45.83		45.61		
21		46.94	↑		46.40	43.77	40.98	↑		↑		
22		46.95			46.40	43.88	40.08					
23		46.95			46.24	44.11	40.98					
24		46.92			46.14	44.22	↑					
25		46.91			46.09	44.22						
26		46.96			46.04	44.30						
27		46.93			45.96	44.40						
28		46.96			45.72	44.40						
29		↓		↓	45.60	40.40			↓		↓	
30	↓	↓	↓	46.67	45.24	40.45	↓	↓	45.83	↓	45.61	↓
31	44.15	↓	46.67	↓	45.24	↓	40.98	45.83	↓	45.61	↓	46.45
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA01

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	46.45	46.01	48.38	48.75	46.22							
2	46.45	46.01	48.39	46.38	46.19							
3	46.45	46.01	48.41		46.19							
4	46.10	46.01	48.42		46.18							
5	46.10	46.30	48.42		46.17							
6	46.10	46.40	48.43	46.39	46.10							
7	46.11	46.39	48.46	46.42	46.08							
8	46.11	46.38	48.47		46.01							
9	46.12	↑	48.47		45.98							
10	↑		48.48	46.33	45.94							
11			48.49		45.92							
12		✓	48.53	46.34	45.85							
13	✓	46.38	48.55	46.36	45.69							
14	46.12	46.37	48.55	46.37	45.46							
15	46.13	↑	48.55	46.31	45.46							
16	46.13		48.57	46.33	45.46							
17	46.13		48.57		45.46							
18	46.14		48.57		45.46							
19	↑		48.59		45.46							
20			48.60	46.33	45.47							
21			48.63	46.32	45.47							
22			48.61	46.32								
23	✓		48.63	46.31								
24	46.14		48.61									
25	46.09	✓	48.64									
26	46.01	46.37	48.65									
27	↑	48.35	48.66	46.31								
28		48.36	48.67	46.24								
29		48.38	48.69	46.24								
30	✓		48.70	46.23								
31	46.01		48.72									
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION

WA02

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1								15.75	13.63	13.42	10.13	10.09
2								15.78	13.66	13.39	10.10	10.17
3								15.81	13.72	13.39	10.06	11.70
4								15.81	13.74	13.33	10.03	11.56
5								15.78	13.75	13.28	9.97	11.48
6								15.76	13.77	13.25	9.96	11.39
7								15.75	13.80	13.22	9.95	12.07
8								15.78	13.83	13.17	9.95	12.13
9								15.80	13.85	13.11	9.93	12.17
10								15.83	13.87	13.06	9.82	12.22
11								15.86	13.89	10.75	9.76	12.29
12								15.91	13.89	10.75	9.70	12.30
13								15.96	13.91	10.71	9.65	12.12
14								16.00	13.91	10.66	9.60	11.90
15								14.11	13.91	10.61	9.56	11.95
16								14.18	13.91	10.56	9.52	12.07
17								14.24	13.90	10.53	9.50	12.15
18								14.30	13.87	10.48	9.46	12.22
19								14.36	13.86	10.43	9.42	12.29
20								14.43	13.83	10.39	9.39	12.35
21								14.47	13.79	10.39	9.35	12.38
22								14.52	13.73	10.35	9.46	12.43
23								14.58	13.75	10.33	9.53	12.48
24							15.18	14.63	13.73	10.29	9.46	12.51
25							15.34	14.67	13.67	10.24	9.39	12.55
26							15.43	14.72	13.64	10.20	9.34	12.58
27							15.53	14.77	13.62	10.14	9.31	12.63
28							15.59	13.46	13.56	10.11	9.41	12.67
29							15.65	13.50	13.53	10.10	9.63	12.68
30							15.69	13.56	13.47	10.10	9.88	12.68
31							15.72	13.59		10.11		12.65
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA02

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-	12.68	13.04	13.28	13.83	14.22							
-	12.70	13.05	13.31	RF	14.22							
3	12.70	13.07	13.34		14.19							
4	12.73	13.09	13.35		14.15							
5	12.75	13.09	13.37		14.20							
6	12.77	12.44	13.39		14.20							
7	12.79	12.46	13.43		14.09							
8	12.83	12.46	13.46		13.37							
9	12.85	12.45	13.48		13.23							
10	12.88	12.42	13.51		13.13							
11	12.88	12.41	13.52		13.00							
12	12.89	12.43	13.55		12.77							
13	12.90	12.47	13.56		12.57							
14	12.89	12.48	13.57		12.33							
15	12.88	12.48	13.56		12.05							
16	12.87	12.48	13.56		11.95							
17	12.90	12.46	13.56		11.88							
18	12.93	12.42	13.58		11.88							
19	12.94	12.25	13.58		11.87							
20	↗	12.03	13.59		11.85							
21	↓	12.03	13.61		11.82							
22	↘	12.13	13.62									
23	12.94	12.13	13.64									
24	12.95	12.29	13.73									
25	12.97	12.35	13.73									
26	13.00	12.39	13.76									
27	13.00	13.35	13.76									
28	13.03	13.31	13.79									
29	13.05	13.26	13.80	14.61								
30	13.06	↘	13.81	14.27								
31	13.06	↘	13.82	↘	↘	↘	↘	↘	↘	↘		
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA03

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1								73.01			74.39	74.25
2								73.05			74.39	74.25
3								73.12			74.37	74.25
4								73.14			↑	OE
5								73.14				74.90
6								73.14				74.89
7								73.14				74.92
8								73.12				↑
9								73.09				
10								73.05				
11								73.00		74.43	↓	
12								73.00		74.41	74.37	
13								72.99		74.42	74.33	
14								72.93		74.42	74.33	
15								72.90		74.43	74.32	
16										74.43	74.31	
17								Missing		74.42	74.30	
18			83.90				76.43	Data		74.42	74.30	
19	83.60						74.10	(from 8/16/79		74.43	74.29	
20							72.03	to 10/10/79		74.43	74.28	
21							72.13			74.42	74.27	
22							72.23			74.40	74.25	
23							72.31			74.40	↑	
24							72.41			74.39		
25							72.49			↑		
26							72.50					
27							72.67					
28							72.76					
29							72.83					
30							72.89			↓	74.25	↓
31							72.97			74.39		74.92
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA03

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	74.92	RF	RF		RF							
2	74.92	↗	↗	RF								
3	RF											
4	↗											
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23			↘									
24			RF									
25												
26												
27												
28		↘										
29		RF										
30	↘			RF	RF							
31	RF											
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA05

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	18.36	18.40	18.44	18.40	18.40	18.40	17.70	17.63	17.54	17.43	17.83	17.55
2	↑	↑	↑	↑	↑	18.40	17.63	↑	17.54	17.43	↑	17.55
3	↑	↑	↑	↑	↑	18.40	17.63	↑	17.54	17.42	↑	17.55
4	↑	↑	↑	↑	↑	18.40	17.63	↑	17.52	17.43	↑	17.53
5	↓	↓	↓	↓	↓	18.40	17.63	↓	17.44	↑	↓	17.50
6	18.36	↓	↓	↓	↓	17.33	17.62	↓	↑	↓	↓	17.48
7	18.37	18.40	↓	↓	↓	17.36	17.62	↓	↓	↓	17.83	17.47
8	18.37	18.41	18.44	↓	↓	16.84	17.62	↓	↓	↓	17.47	21.11
9	18.37	18.42	18.42	↓	↓	16.84	17.62	17.63	↓	↓	↑	↑
10	18.37	18.45	18.42	↓	↓	16.89	17.55	17.73	↓	↓	↓	↓
11	18.37	18.46	18.42	↓	↓	16.92	17.50	17.73	17.44	↓	↓	↓
12	18.39	↑	18.42	↓	↓	16.95	17.57	17.72	17.45	17.43	↓	21.11
13	18.41	↓	18.41	↓	↓	17.13	17.56	17.53	↑	OE	↓	21.08
14	18.41	↓	18.40	↓	↓	17.13	17.56	↑	↓	OE	↓	21.07
15	18.41	↓	↑	↓	↓	17.12	17.57	↓	↓	OE	↓	21.08
16	18.41	↓	↓	↓	↓	17.11	17.61	↓	↓	17.70	↓	21.11
17	18.42	↓	↓	↓	↓	17.03	17.61	↓	↓	17.70	↓	21.13
18	18.42	↓	↓	↓	↓	16.95	17.61	↓	↓	17.82	↓	21.22
19	18.42	↓	↓	↓	↓	16.94	17.62	17.53	↓	17.83	↓	21.23
20	18.46	18.46	↓	↓	↓	16.94	↑	17.54	↓	↑	17.47	21.26
21	18.46	18.45	↓	↓	↓	16.90	↓	↑	17.45	↓	17.49	21.27
22	18.46	18.45	↓	↓	↓	16.86	↓	↓	17.44	↓	17.49	↑
23	18.46	18.45	↓	↓	↓	16.84	↓	↓	17.42	↓	17.47	↓
24	18.44	18.44	↓	↓	↓	16.82	↓	↓	17.43	↓	17.39	↓
25	18.40	18.44	↓	↓	↓	16.80	17.62	↓	17.35	↓	17.39	21.27
26	18.41	18.44	↓	↓	↓	16.74	17.63	↓	17.37	↓	17.39	21.29
27	18.41	18.44	↓	↓	↓	16.73	↑	↓	17.41	↓	17.39	↑
28	18.41	18.44	↓	↓	↓	16.60	↑	↓	17.41	↓	17.50	↓
29	18.40	↓	↓	↓	↓	16.58	↓	↓	17.42	↓	17.55	↓
30	18.40	↓	↓	18.40	↓	16.58	↓	↓	17.42	↓	17.55	↓
31	18.40	↓	18.40	↓	18.40	↓	17.63	17.54	↓	17.83	↓	21.29
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA05

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-	21.29	17.46	9.36	15.66	○							
-	21.29	↑	9.35	15.65								
3	21.29		9.35	15.71								
4	17.52		9.35	15.71								
5	↑		9.34	15.85								
6			9.33	17.17								
7			20.67	↑								
8			20.63									
9			21.19									
10		↓	RF	M								
11	↓	17.46	RF	I								
12	17.52	17.44	RF	S								
13	17.47	17.48	RF	S								
14	17.47	17.48	21.16	I	↓							
15	17.46	10.52	21.18	N	14.93							
16	↑	10.52	RF	G	14.94							
17		10.53	RF		14.99							
18		10.54	RF	D	14.29							
19		10.53	21.08	A	14.41							
20		10.52	21.17	T	14.52							
21		10.52	21.19	A	14.57							
22		10.52	RF									
23		10.51	RF									
24		10.51	RF									
25		10.50	15.69									
26		10.50	15.61									
27		10.50	15.64									
28		10.50	15.70									
29		17.48	15.74									
30	↓		15.73	○								
31	17.46		15.69									
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA06

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	32.80						26.90	24.08	28.68	28.59	RF	29.52
2	RF						25.78	24.08	28.64	28.59	↑	29.41
3	↑						26.03	23.36	28.61	28.58		29.33
4							26.16	22.72	28.59	28.58		29.24
5							26.16	22.13	↑	27.92	↓	29.16
6							26.14	21.57		27.92	RF	33.46
7							26.14	21.06		27.89	31.46	33.44
8							26.14	20.59		27.87	31.60	33.48
9							26.10	20.18		32.80	31.72	33.48
10							↑	19.83		32.80	31.85	33.56
11								19.45		32.76	31.96	33.60
12								19.22		32.69	31.98	33.67
13							↓	18.89		32.63	31.88	33.69
14	↓					25.97	26.10	18.62		32.61	31.67	33.73
15	RF					26.00	26.37	18.31		32.70	31.49	33.77
16						26.12	26.76	18.16		32.70	31.36	33.80
17						26.39	27.17	17.93		32.70	31.19	33.83
18						26.51	27.37	17.71		33.59	30.99	33.85
19						26.62	27.52	17.54		33.84	30.90	33.89
20						26.88	23.30	30.20		33.84	30.75	33.92
21						26.92	22.93	30.17		33.84	30.66	33.95
22						26.99	22.96	30.03		33.84	30.50	33.98
23						26.99	22.93	29.85		33.84	30.35	34.04
24						26.90	22.72	29.76		RF	30.22	34.07
25						↑	22.59	29.59		↑	30.11	34.09
26							22.80	29.44			29.99	34.12
27							22.81	29.28			29.90	34.15
28							23.01	29.17			29.80	34.17
29						↓	23.60	29.02	↓		29.70	34.19
30						26.90	23.89	28.86	28.59	↓	29.59	RF
31						23.99	28.73			RF		RF
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA06

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	RF	RF	34.67	34.37	33.03							
2	↑	↑	34.65	34.37	33.20							
3			34.63	34.36	33.21							
4			34.61	34.36	33.23							
5			34.60	34.34	33.25							
6			34.60	34.33	33.27							
7			34.60	34.30	33.31							
8			34.59	34.28	33.33							
9			34.58	34.25	33.34							
10		↓	34.58	34.22	33.35							
11		RF	34.58	34.19	33.36							
12		34.75	34.58	34.11	33.36							
13		↑	34.57	34.06	33.36							
14			34.57	34.02	33.33							
15		↓	34.57	33.99	33.22							
16		34.75	34.57	33.94	32.97							
17		34.76	34.56	33.86	32.70							
18		34.77	34.54	33.76	32.31							
19		34.77	34.53	33.62	31.88							
20		34.70	34.52	33.49	31.37							
21		34.65	34.50	33.30	30.78							
22		34.64	34.47	33.13	30.15							
23		34.63	34.44	33.02								
24		34.63	34.39	32.94								
25		34.63	34.38	32.90								
26		34.68	34.34	32.90								
27		34.69	34.31	32.93								
28		34.69	34.29	32.94								
29		34.69	34.25	32.98								
30	↓		34.23	33.01								
31	RF		34.21									
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA07

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1									31.84	30.39	31.64	32.11
2									31.76	30.42	31.64	32.12
3									31.68	30.42	31.64	32.12
4									31.63	30.44	31.64	32.12
5									31.55	30.46	32.09	32.12
6									31.45	30.46	↗	33.20
7									31.37	30.47		33.20
8									31.31	30.47		33.22
9									31.25	31.91	↘	33.22
10									31.18	31.83	32.09	33.23
11									31.13	31.83	32.10	33.24
12									31.06	31.83	↗	↗
13									31.01	31.83		
14									30.96	31.82		
15									30.90	31.81		
16									30.85	31.64		
17									30.80	↗		
18									30.74			
19									30.70			
20								32.83	30.65		↘	
21								32.80	30.61		32.10	
22								32.71	30.56		32.11	
23								32.62	30.51		↗	
24								32.51	30.46			
25								32.43	30.42			
26								32.32	30.39			
27								32.23	30.34			
28								32.15	30.32			
29								32.05	30.33		↘	
30								31.98	30.36	↘	32.11	↘
31								31.91		31.64		33.24
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA07

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	33.24	33.34										
2	33.24	↑										
3	33.24											
4	33.28											
5	33.34											
6	↑											
7												
8												
9												
10		↓										
11		33.34										
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30	↓											
31	33.34											
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA08

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1							22.40	RF	37.21	37.41	RF	RF
2							22.42	↑	37.21	↑	↑	↑
3							22.42		37.21			
4							22.42		37.21			
5							21.47		37.22			
6							20.99		37.22			
7							20.89		37.23			
8							20.88		↑			
9							20.87					
10		RECORDER					20.85		↓			
11		FAILURE					20.84		37.23			
12		(from 1/1/79 to 6/20/79					20.83		37.24			
13		and 6/22/79 to 6/28/79)					20.83		↑	↓		
14							20.83			37.41		
15							20.82		↓	RF		
16							20.82		37.24	↑		
17							20.82		37.25			
18							20.83		37.25			
19							20.83		37.26			
20							20.84		37.41			
21						22.10	20.77		↑			
22							20.55					
23							20.52					
24							RF					
25							↑	↓				
26								RF				
27								37.19				
28								37.20				
29						22.60		37.21	↓		↓	
30						22.57	↓	37.21	37.41	↓	RF	↓
31							RF	37.21		RF		RF
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA08

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-	RF	RF	RF	RF	24.95							
-	↑	↑	↑	↑	24.96							
3					24.98							
4					25.00							
5					25.01							
6					25.02							
7					25.03							
8					25.03							
9					25.05							
10					25.18							
11					↑							
12					↓							
13					25.18							
14					23.68							
15					23.25							
16					23.18							
17					↑							
18					↓							
19					↓							
20					23.18							
21					23.59							
22												
23												
24												
25												
26												
27												
28		↓										
29		RF		↓								
30	↓	RF	↓	RF								
31	RF	RF	RF	RF								
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA09

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1									48.39	49.10	RF	RF
2									↑	↑	↑	↑
3												
4												
5												
6												
7												
8												
9												
10										↓		
11										49.10		
12									↓	48.40		
13									48.39	48.40		
14									49.10	48.40		
15									↑	48.41		
16										48.41		
17										49.92		
18										49.92		
19										RF		
20										↑		
21												
22												
23												
24								48.39				
25								↑				
26												
27												
28												
29									↓		↓	
30								↓	49.10	↓	RF	↓
31								48.39		RF		RF
AVG.												

RF=Recorder Failure



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA09

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	RF	RF	46.95	46.84	RF							
2	↑	↑	↑	46.84								
3				46.83								
4				↑								
5												
6												
7												
8												
9												
10												
11				↓								
12		↓		46.83								
13		RF		46.81								
14		46.91		↑								
15		46.91										
16		46.90										
17		46.90										
18		46.88		↓								
19		46.88		46.81								
20		46.86		46.82								
21		46.86		46.82								
22		46.85	↓	46.84	↓							
23		46.85	46.95	46.86								
24		46.85	46.86	46.86								
25		46.80	↑	46.87								
26		46.80		46.88								
27		46.80		46.91								
28		46.80		46.92								
29		46.95	↓	46.93								
30	↓			46.86								
31	RF			46.84								
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA10

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1											RF	RF
2											↑	↑
3												
4												
5												
6												
7												
8												
9												
10												
11												
12		D R Y										
13		(from 1/1/79 to 10/15/79)										
14												
15												
16										RF		
17										↑		
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30										↓	↓	↓
31										RF	RF	RF
AVG.												

RF=Recorder Failure

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA10

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	RF											
2	RF											
3	RF											
4	↑											
5	↑											
6	↑											
7	↑											
8	(unknown length of time)											
9	↑											
10	↓											
11	↓											
12	↓											
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA11 (DISTANCE FROM SURFACE IN FEET)YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	54.56	54.60	54.60	RF	RF	RF	53.93	55.87	55.86	55.84		
2	54.56	↗	↗	↗	↗	↗	↗	↗	↗	↗		
3	54.53											
4	↗									↘		
5										55.84		
6										70.59		
7										↗		
8												
9												
10												
11								↘				
12								55.87				
13								55.86	↘			
14								↗	55.86			
15									55.84			
16									↗			
17	↘									↘		
18	54.53									70.59		
19	54.60		↘							70.57		
20	↗		54.60									
21			54.68									
22			54.63									
23			↗									
24												
25												
26												
27		↘	↘			↘						
28		54.60	54.63			RF	↘					
29		↘	RF	↘		53.93	53.93		↘			
30	↘	↘	RF	RF	↘	53.93	55.87	↘	55.84			
31	54.60	↘	RF	↘	RF	↘	55.87	55.86	↘			
AVG.												

RF=Recorder Failure



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA12 (DISTANCE FROM SURFACE IN FEET)YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	56.43								56.56	56.37		
2	56.50								56.56	56.36		
3	↑								56.55	56.36		
4									56.53	56.36		
5									56.49	56.35		
6									56.48	56.35		
7									56.46	56.34		
8									56.46	56.33		
9									56.45	56.33		
10									56.45	56.32		
11									56.44	56.32		
12									56.42	56.32		
13				R E C O R D E R					56.42	56.31		
14				F A I L U R E					56.42	56.31		
15				(from 1/20/79 to 8/14/79)					56.60	56.42	56.31	
16								↑	56.40			
17									↑			
18	↓											
19	56.50							↓				
20								56.60				
21								56.59				
22								56.59				
23								56.59				
24								56.58				
25								56.58	↓			
26								56.58	56.40			
27								56.58	56.39			
28								56.57	56.39			
29								56.57	56.39			
30								56.57	56.38			
31								56.57				
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WA12 (DISTANCE FROM SURFACE IN FEET)YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
	IM	46.53	59.35	55.22	54.32							
	IM	↑	59.34	55.20	54.31							
3	46.52		55.48		54.26							
4	↑		55.48		54.24							
5			55.48		54.21							
6			55.44									
7			55.44		54.20							
8			55.43									
9			55.42		54.18							
10		↓	55.41		54.16							
11	↓	46.53	55.40		54.15							
12	46.52	46.54	55.39									
13	46.53	59.45	55.38									
14	↑	↑	55.37									
15			55.36									
16			55.34									
17		↓	55.34									
18		59.45	55.32									
19		59.44	55.32		54.14							
20		↑	55.29		54.14							
21			55.26									
22		↓	55.25									
23		59.44	55.24									
24		59.43	55.38									
25		59.42	55.37									
26		59.42	55.37									
27		59.39	55.36									
28		59.38	55.34									
29		59.37	55.30									
30	↓		55.29									
31	46.53		55.24									
AVG.												

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UPPER AQUIFER  
WELLS





#### 2.2.1.4 Upper Aquifer Wells

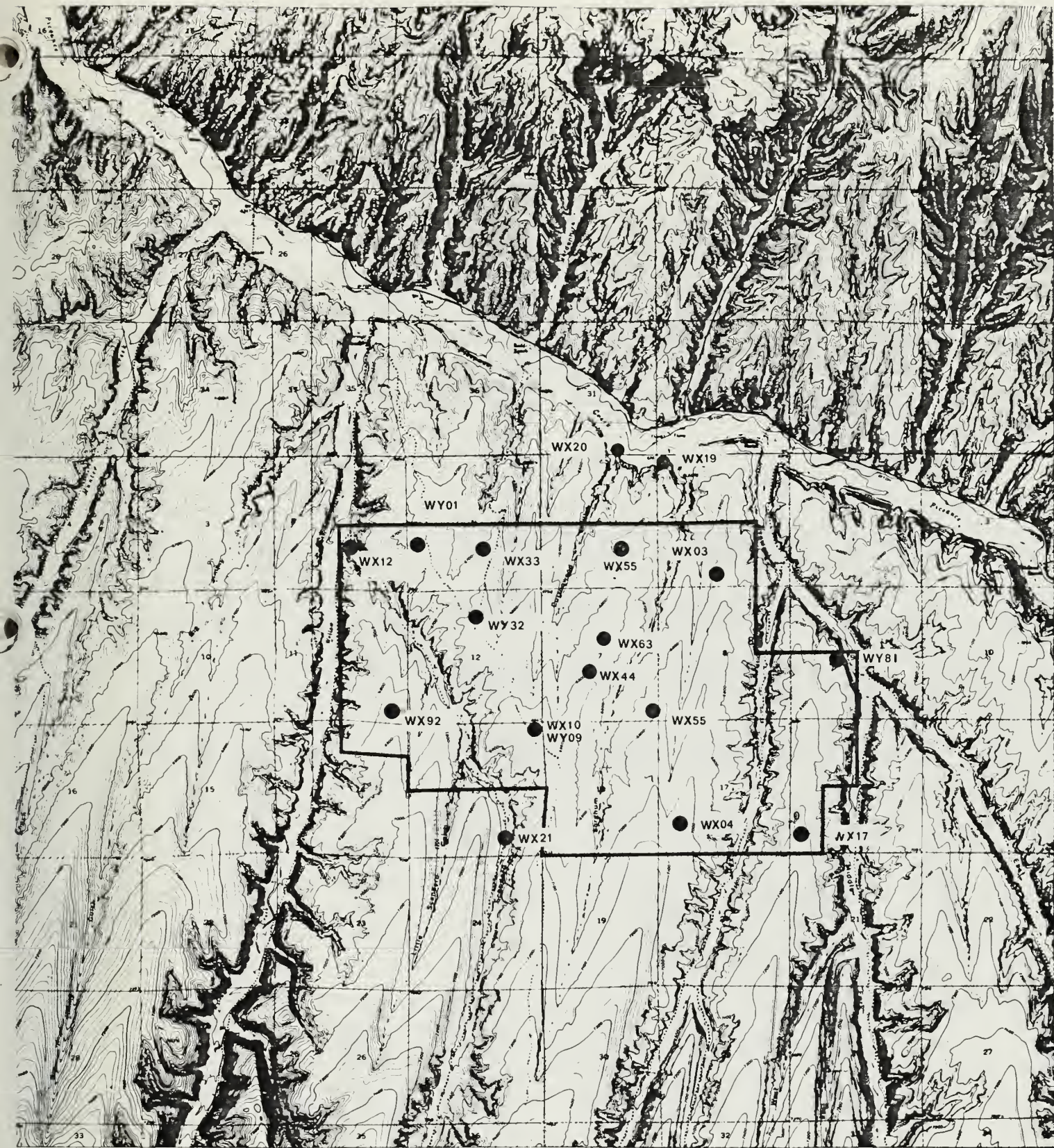
Water Levels for Upper Aquifer Wells for this time period are reported in this section. The deep well monitoring network is shown in Figure 2.2.1.4-1.

<u>Tables/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
	<u>DMP Requirements</u>	
Figure 2.2.1.4-1	Deep Well Monitoring Network	I-129
Table 2.2.1.4-1	Water Level in Upper Aquifer Well	I-130
Table 2.2.1.4-2	Index to Hand Plots of Water Levels in Upper Aquifer Wells	I-131
Table 2.2.1.4-3	Index to Stevens Recorder data for Upper Aquifer Wells	I-151
	<u>WAP Requirements</u>	
Table 2.2.1.4-4	Water Levels in Upper Aquifer Wells Required by Water Augmentation Plan	I-160

An attempt has been made to refer to all stations by their four-digit computer station codes. For additional information on these codes refer to Section 4.0.

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DEEP WELL MONITORING NETWORK  
Cb TRACT

Figure 2.2.1.4-1



TABLE 2.2.1.4-1

CB-TRACT  
WATER LEVELS IN UPPER AQUIFER WELLS  
FOR SAMPLE DATE SHOWN

[illegible]

PLUGGD= WELL PLUGGED  
 DRY = WELL DRY  
 FLOWING= WELL FLOWING  
 IMACCS= WELL INACCESSIBLE  
 NS = WELL NOT SAMPLED

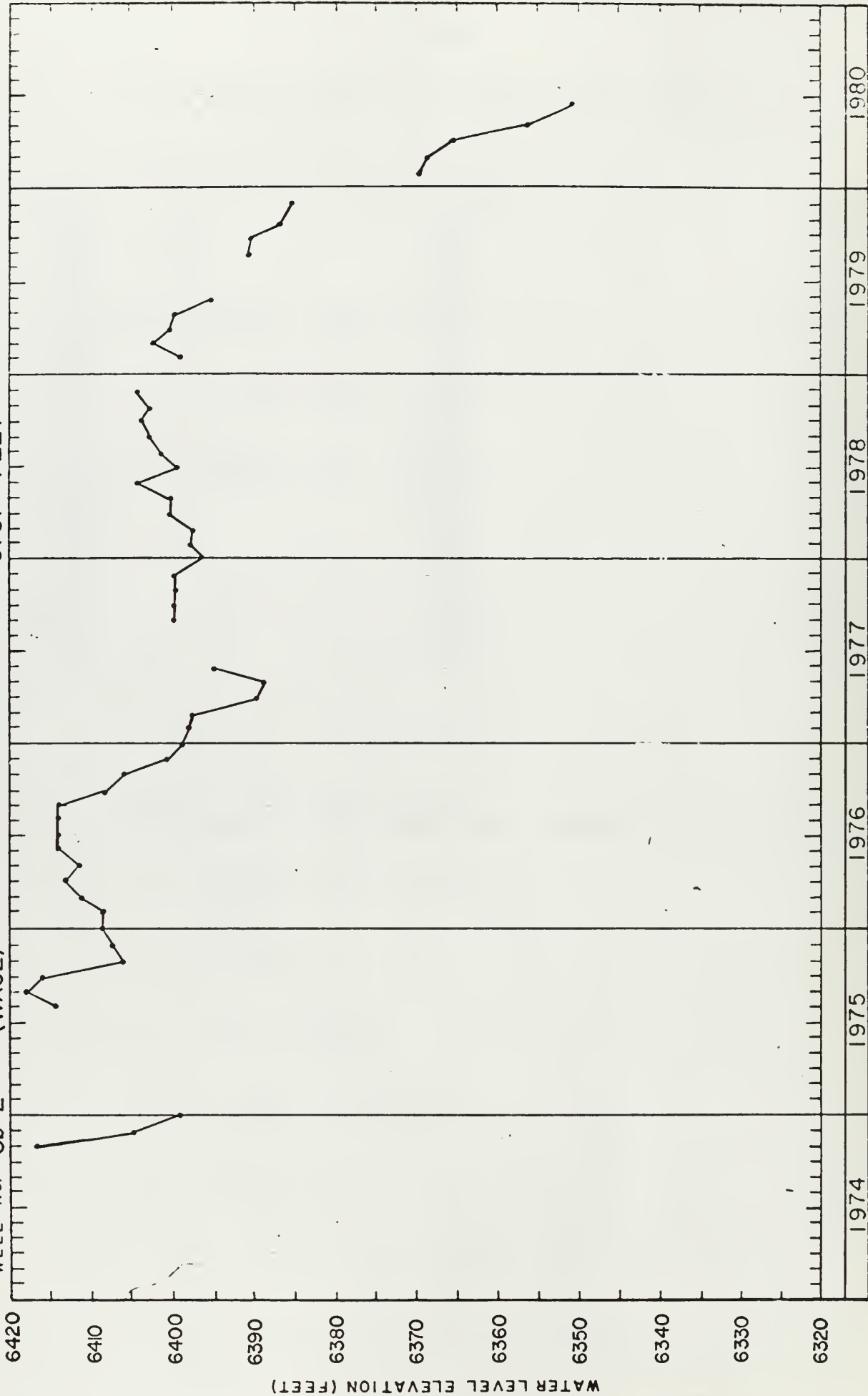
## TABLE 2.2.1.4-2

## HAND PLOTS OF WATER LEVELS IN UPPER AQUIFER WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
Cb-2	WX02	I-132
Cb-4	WX04	I-133
SG-10A-1	WE10	I-134
SG-10A-2	WD10	I-135
SG-10A	WX10 *	I-136
SG-1A	WX11	I-137
SG-1-2	WX12	I-138
SG-17-2	WX17	I-139
SG-18A	WX18	I-140
SG-19	WX19	I-141
SG-20	WX20	I-142
SG-21	WX21	I-143
32X-12	WX32	I-144
33X-1	WX33	I-145
41X-1	WX41	I-146
AT-1C-3	WX44	I-147
SG-11-3	WX55	I-148
SG-6-3	WX63	I-149
SG-9-2	WX92	I-150

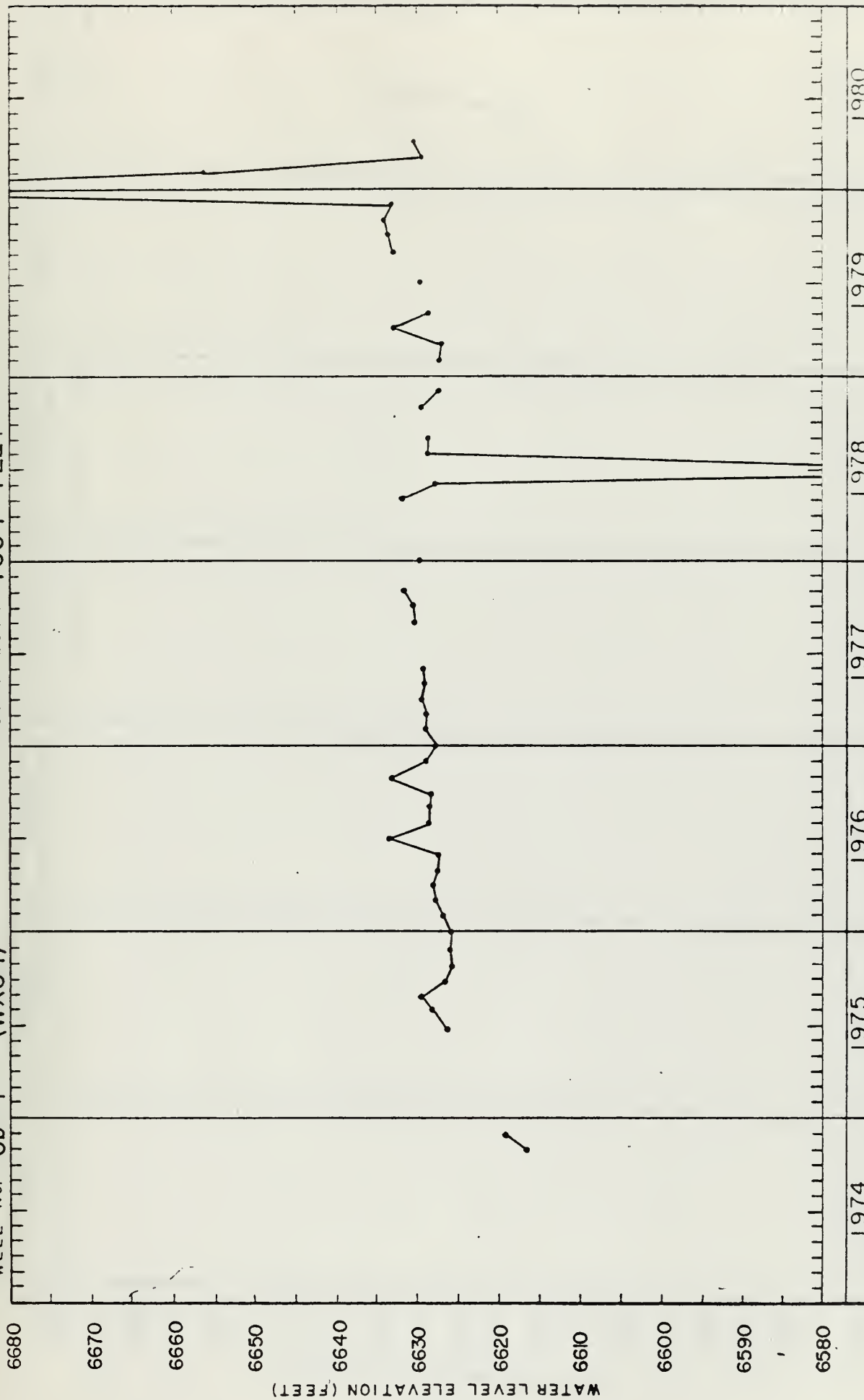
\* WX10 has been recompleted, new computer codes are WE10 & WD10.

WELL NO. Cb-2 (WXO2) GROUND ELEV. 6737 FEET



WATER LEVEL DATA

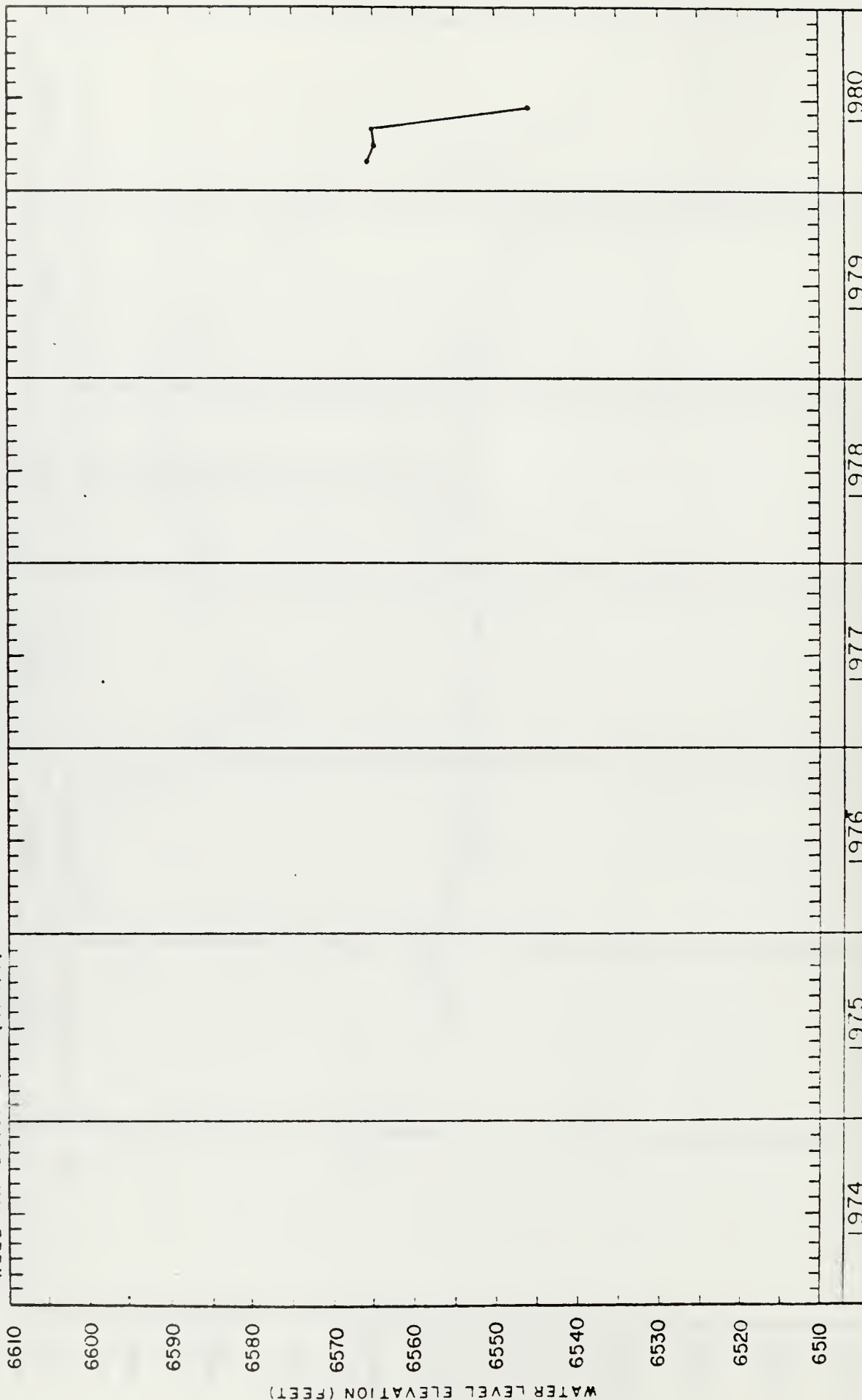
WELL NO. Cb-4 (WX04) GROUND ELEV. 7054 FEET



WATER LEVEL DATA



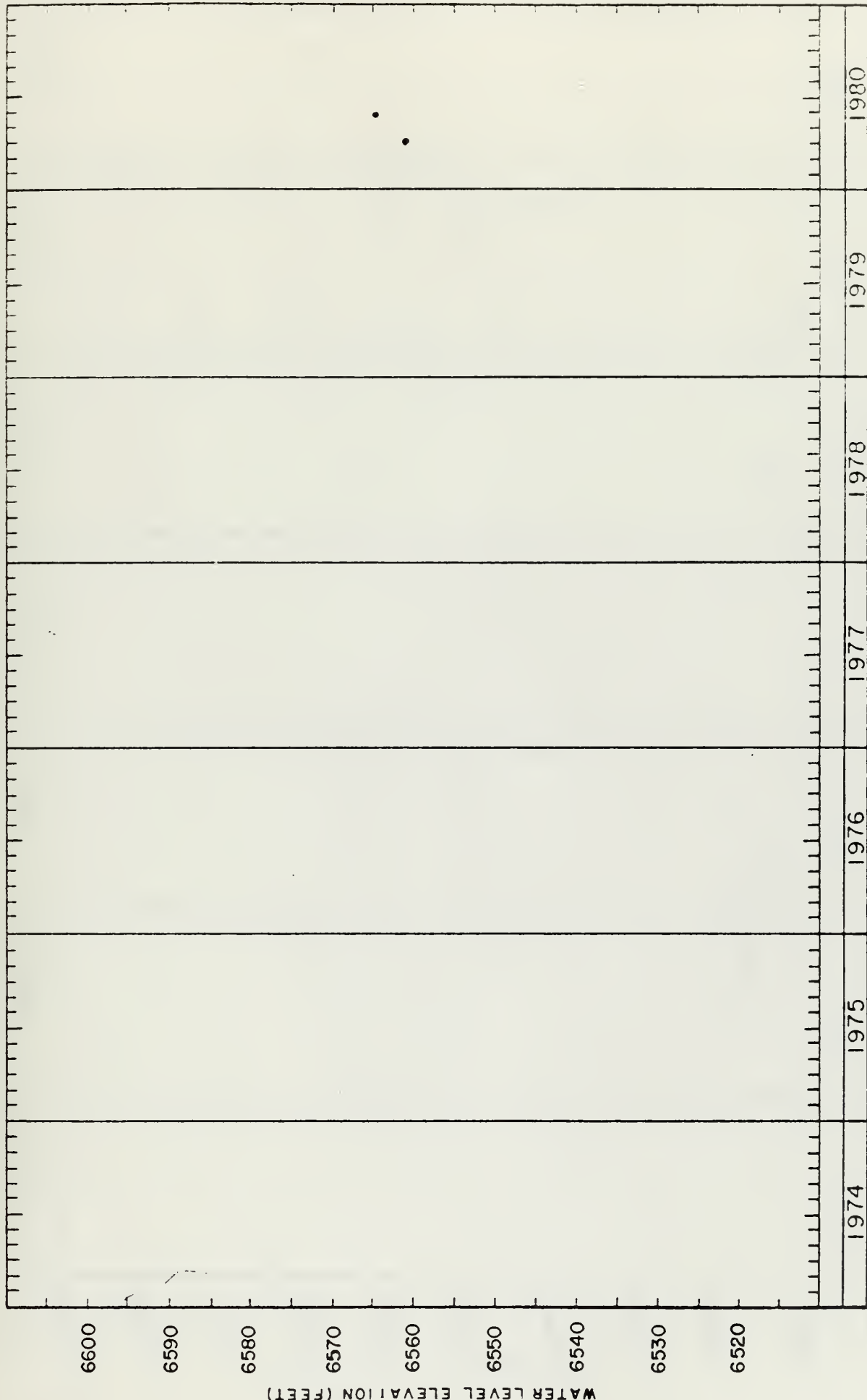
WELL NO. SG10A-1 (WE10) GROUND ELEV. 6953 FEET



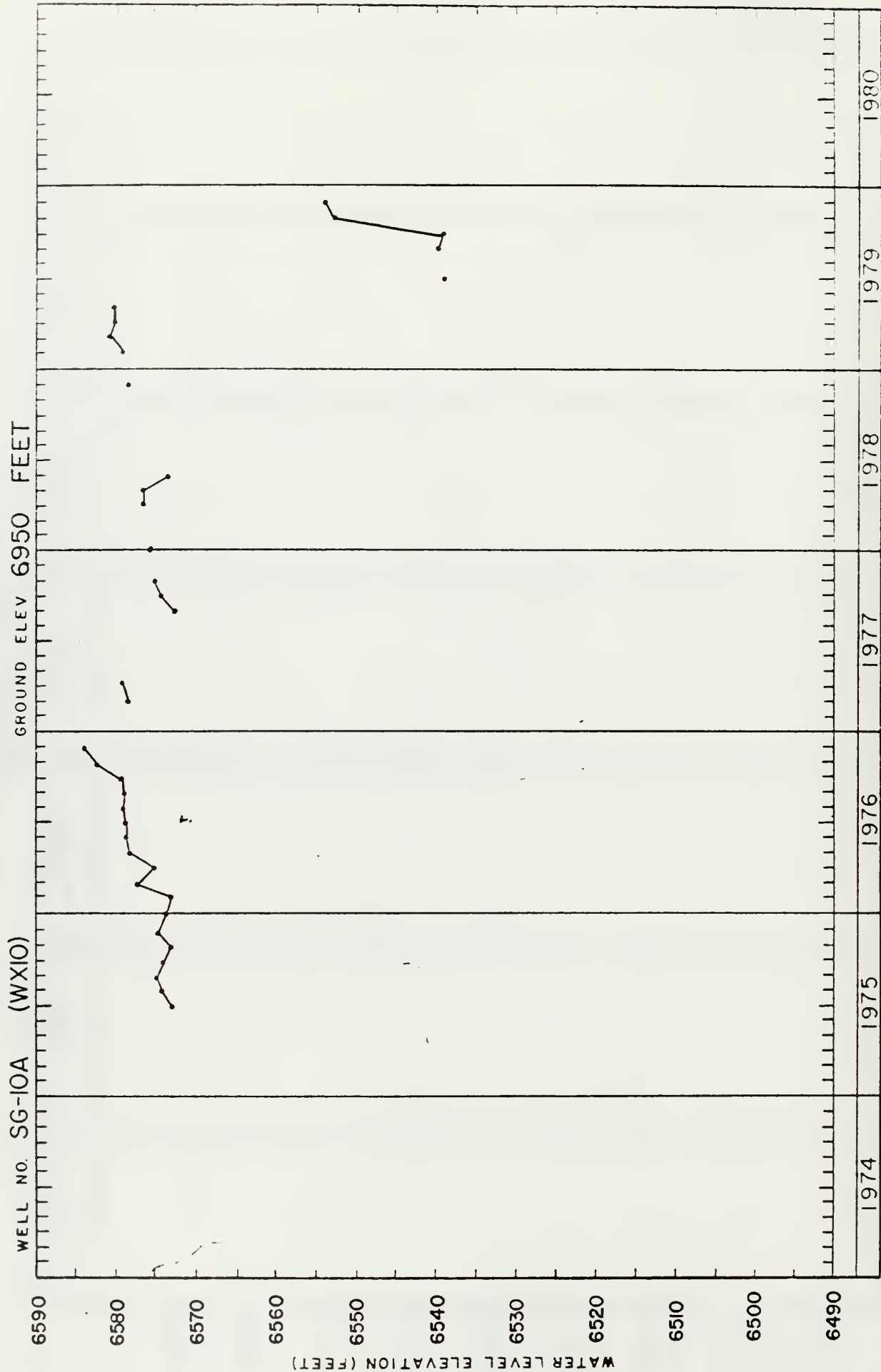
WATER LEVEL DATA

WELL NO. SG10A-2 (WDIO)

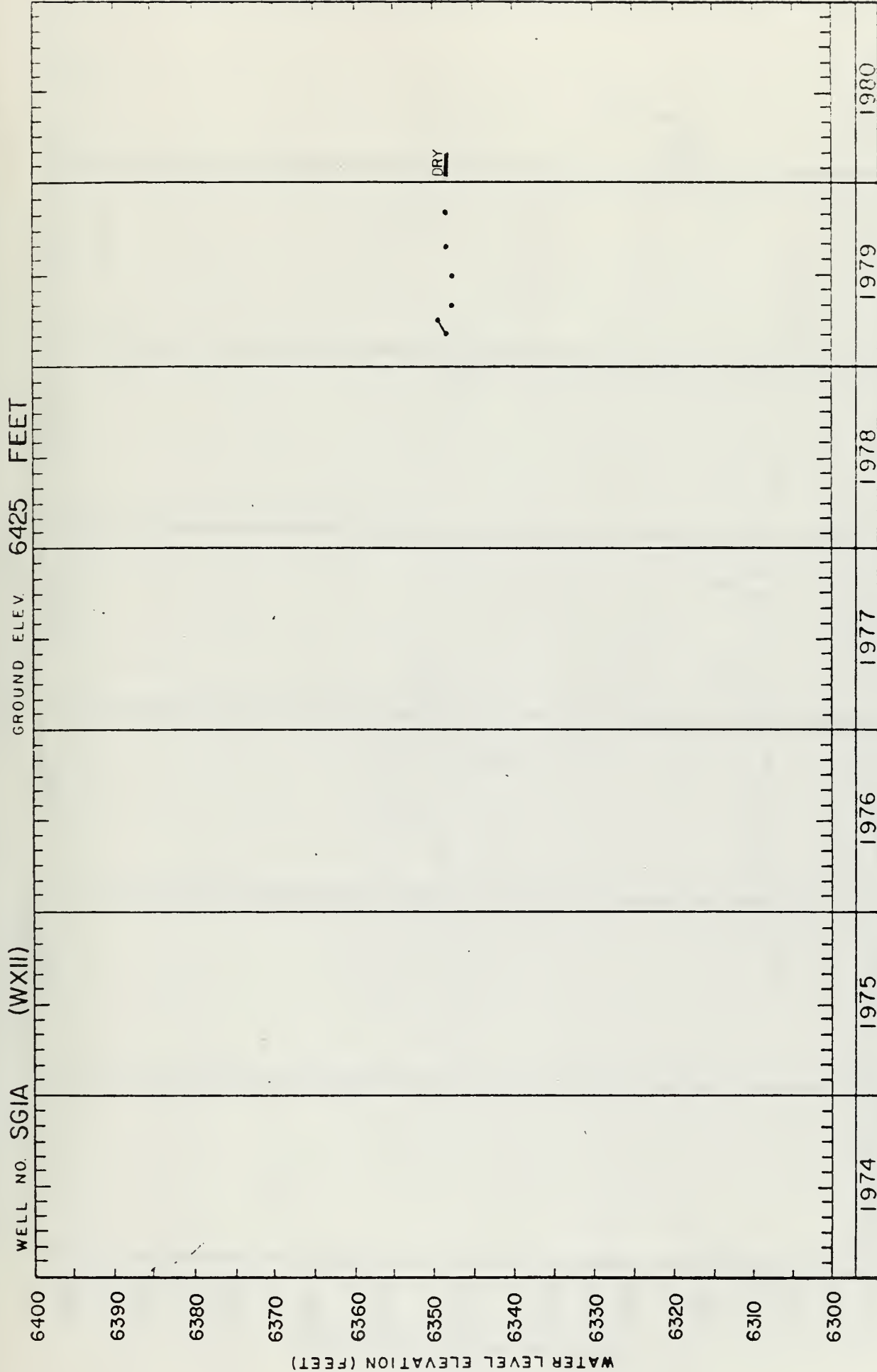
GROUND ELEV 6953



WATER LEVEL DATA



WATER LEVEL DATA



WATER LEVEL DATA

WATER LEVEL ELEVATION (FEET)



GROUND ELEV. 6428 FEET

WELL NO. SG1-2 (WX12)

WELL NO. SG1-2 (WX12)

6380

6370

6360

6350

6340

6330

6320

6310

6300

6290

6280

WATER LEVEL ELEVATION (FEET)

1980

1979

1978

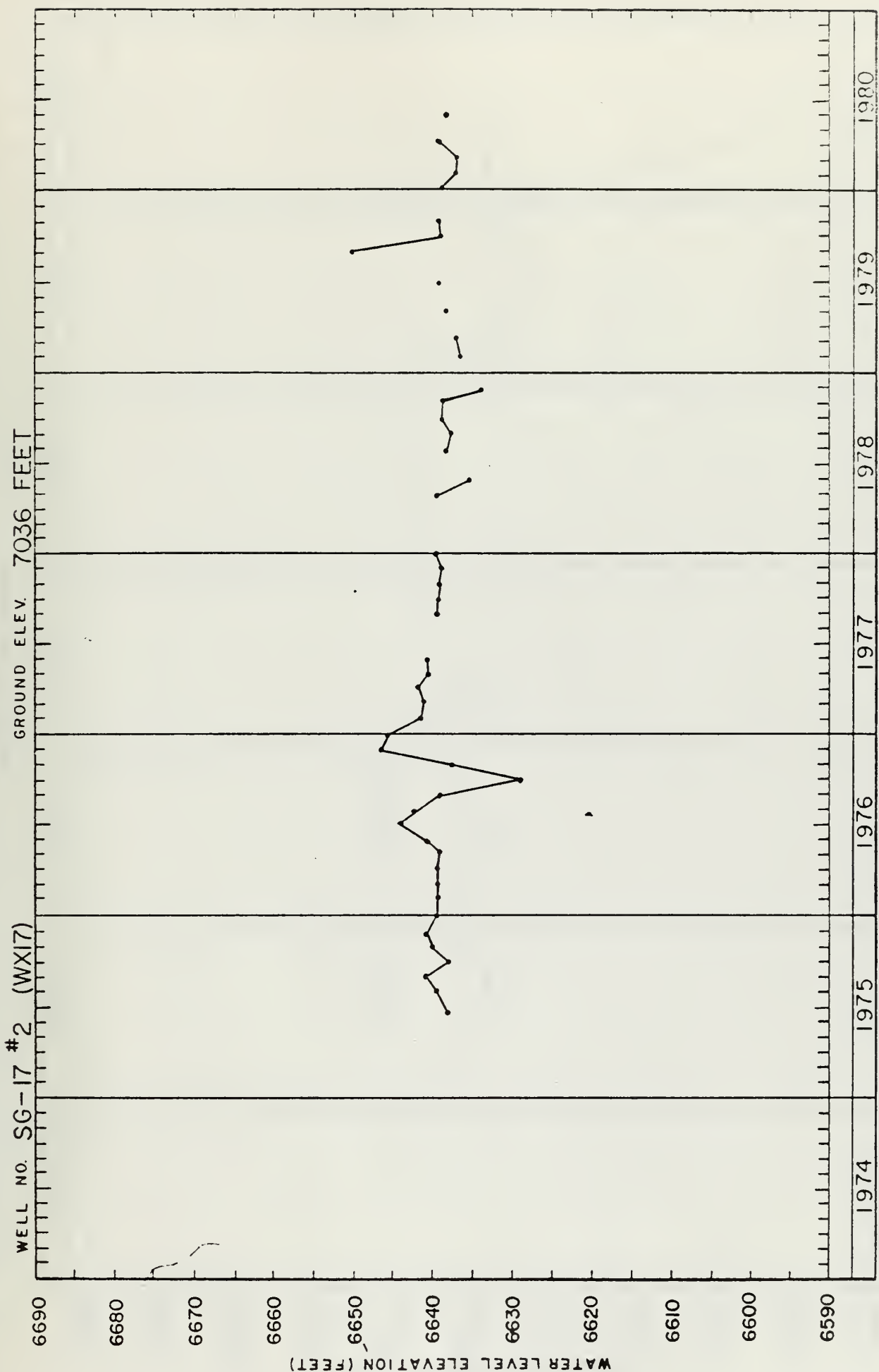
1977

1976

1975

1974

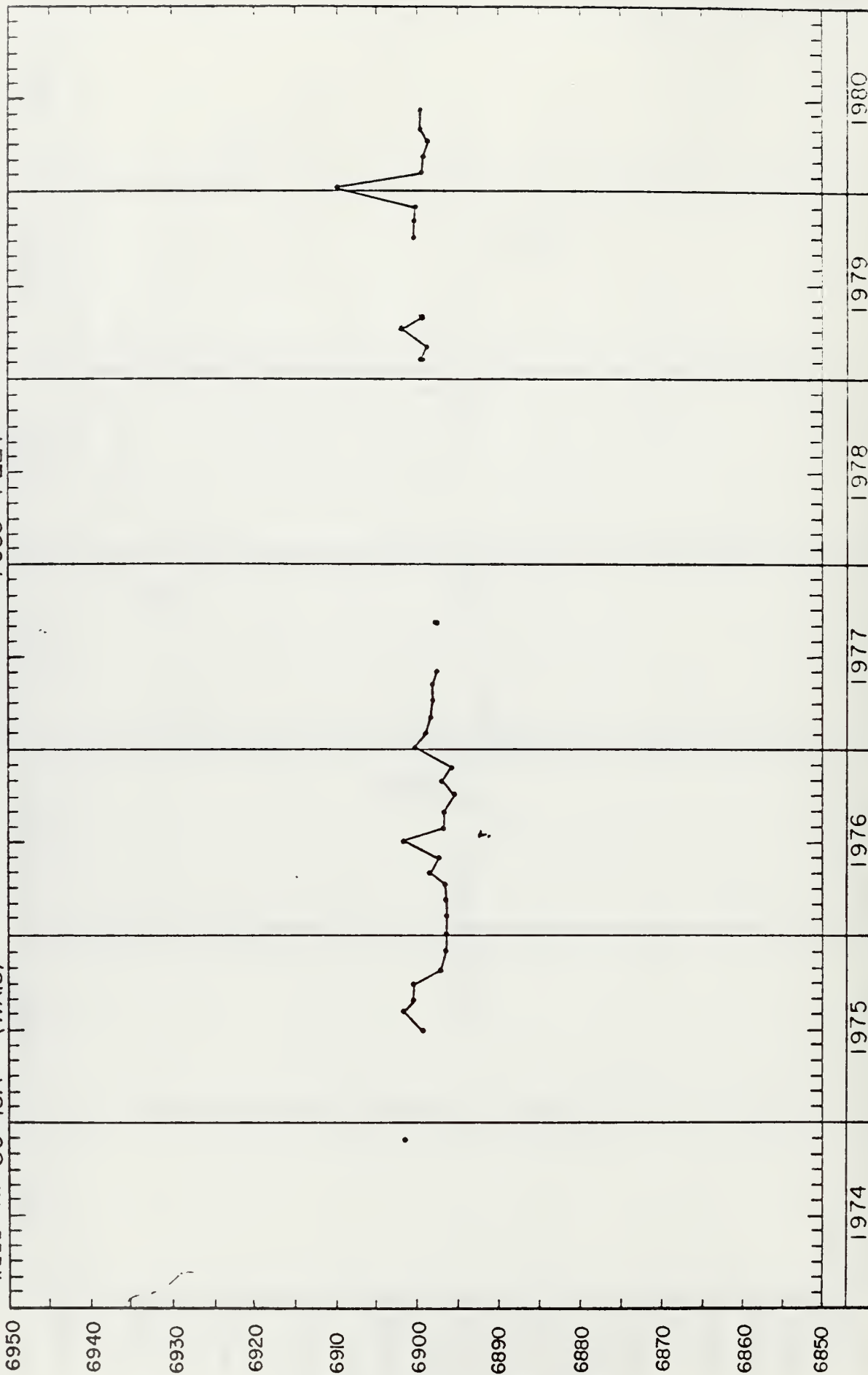
WATER LEVEL DATA



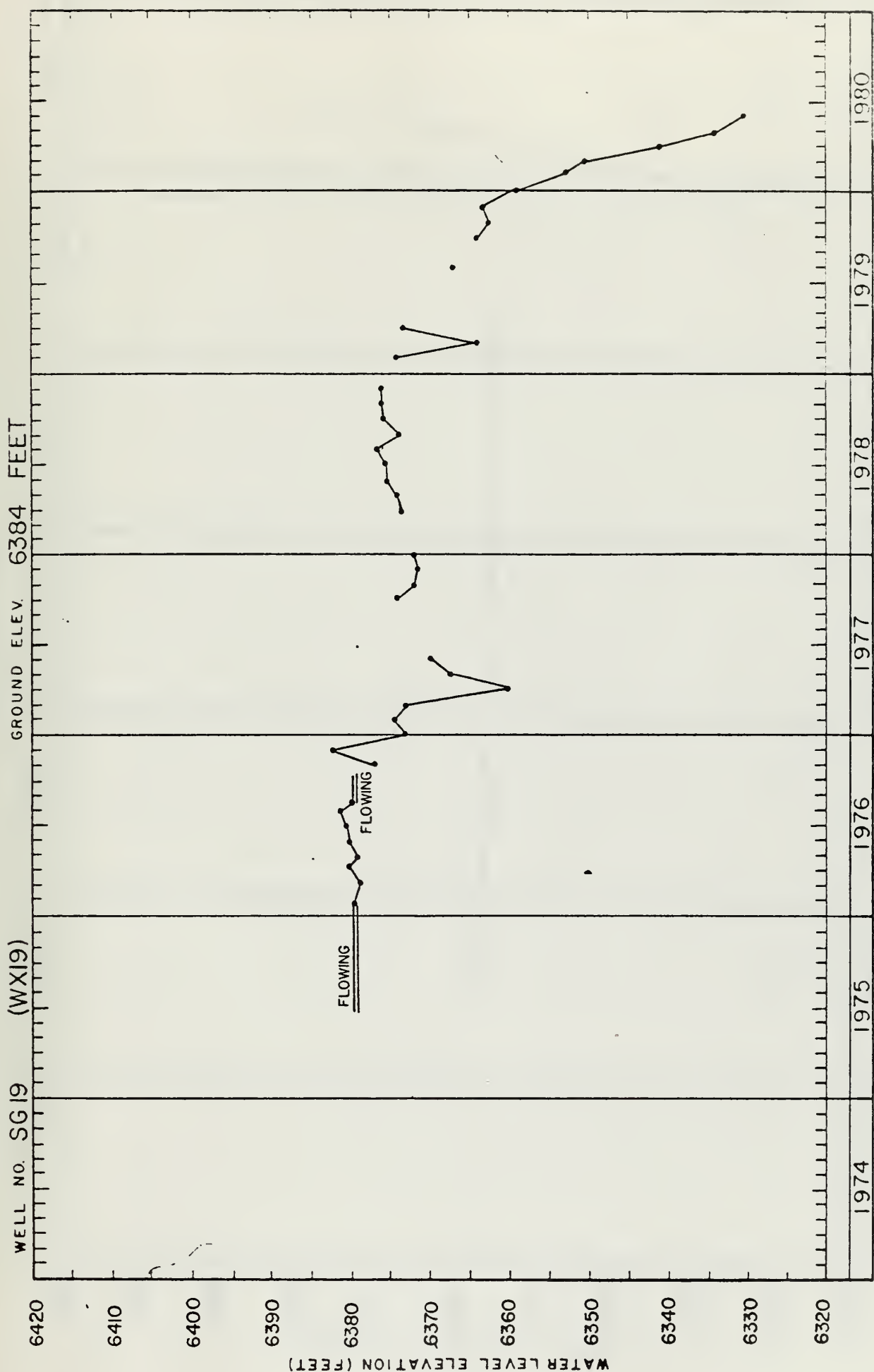
WATER LEVEL DATA

WELL NO. SG-18A (WX18)

GROUND ELEV. 7383 FEET



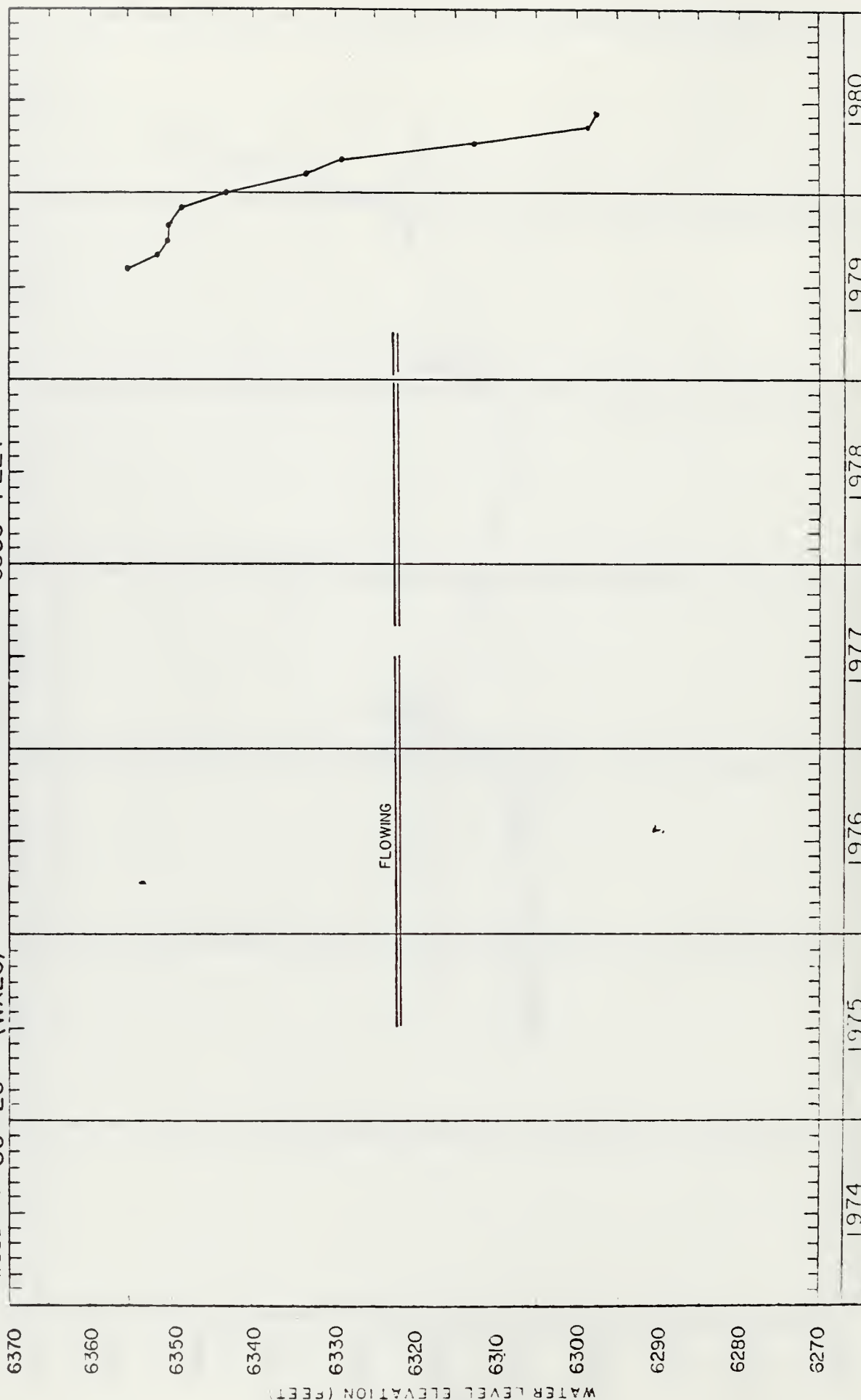
WATER LEVEL DATA



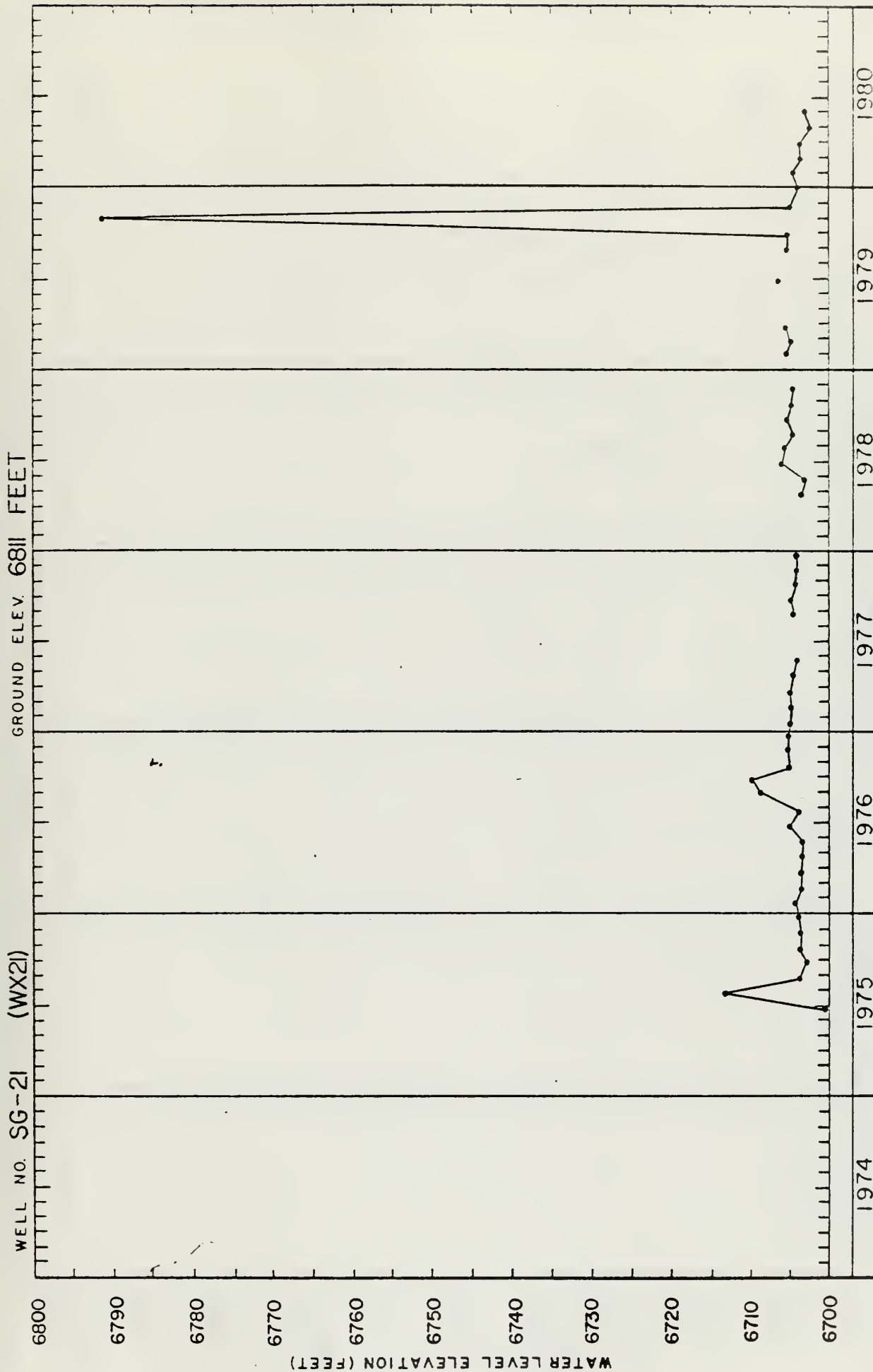
WATER LEVEL DATA



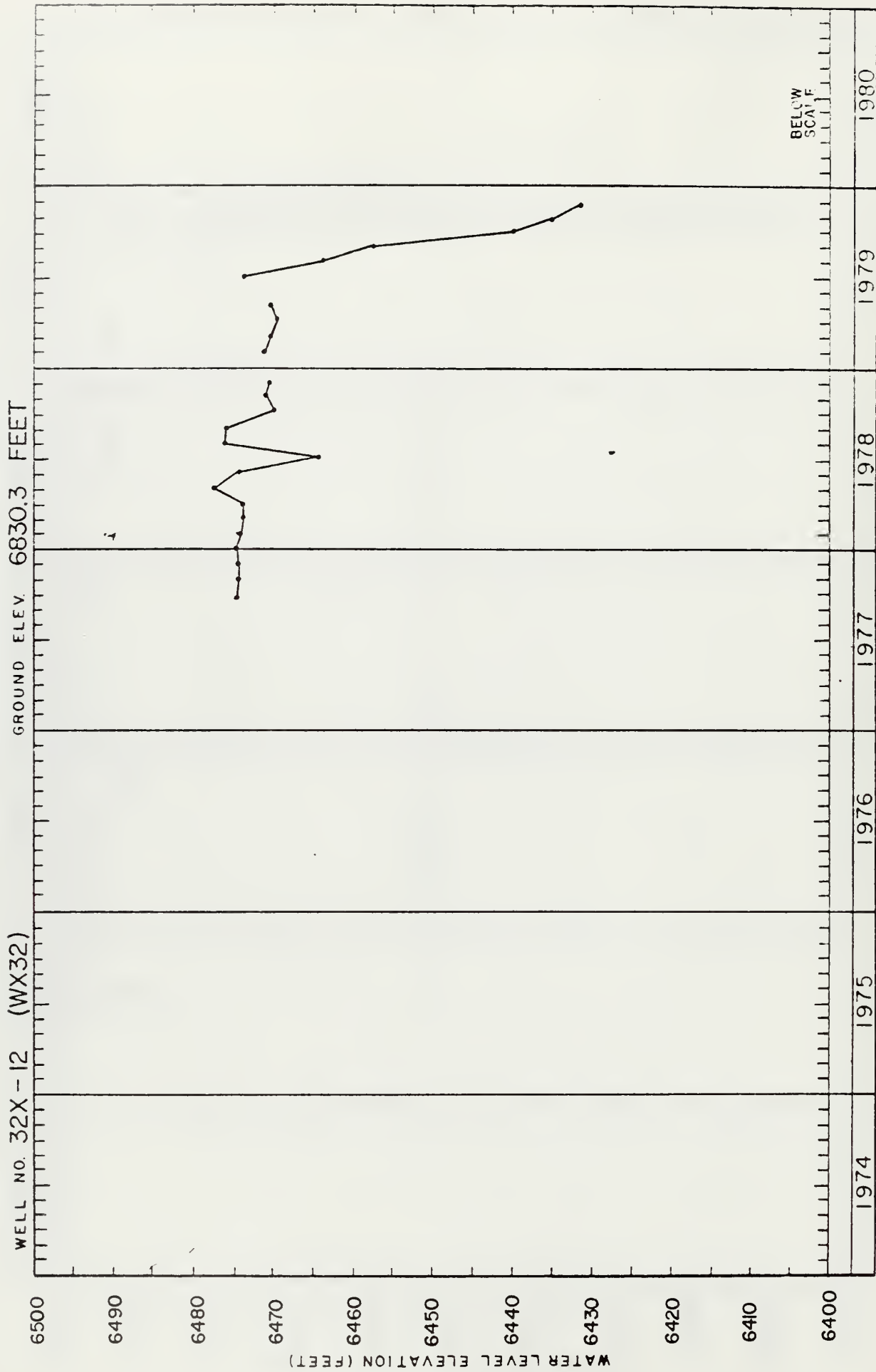
WELL NO. SG-20 (WX20) GROUND ELEV. 6358 FEET



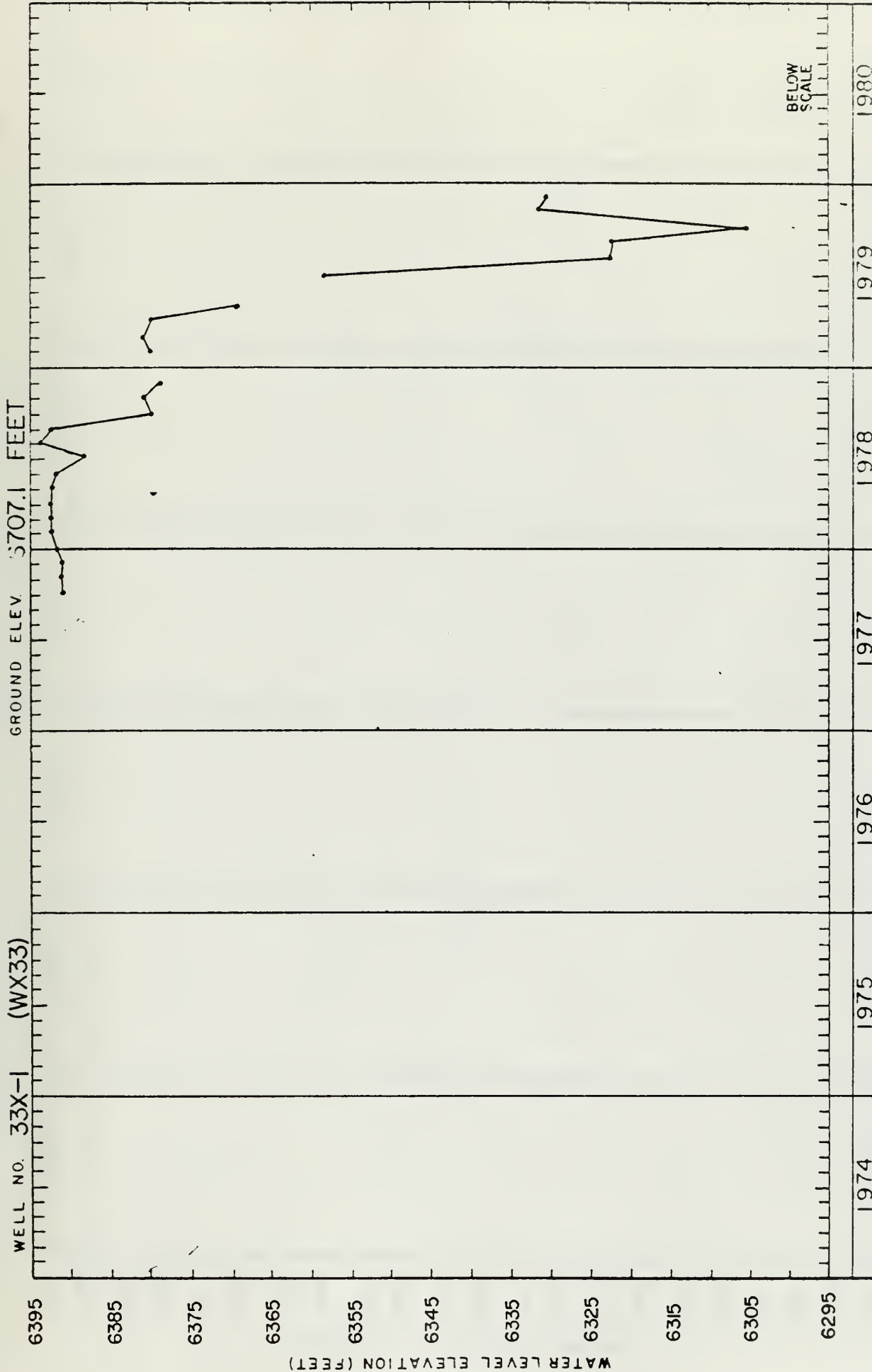
WATER LEVEL DATA



WATER LEVEL DATA

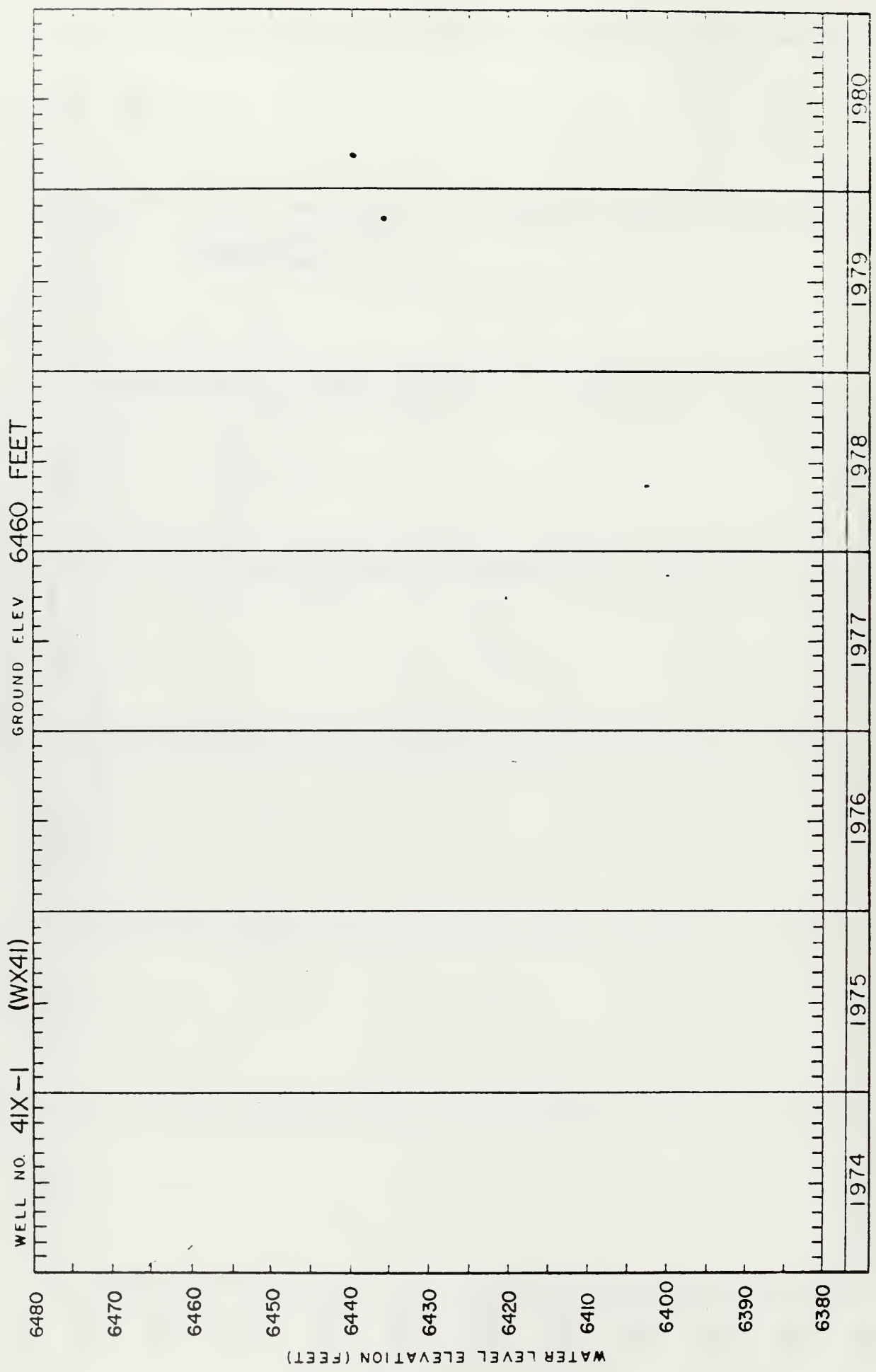


WATER LEVEL DATA



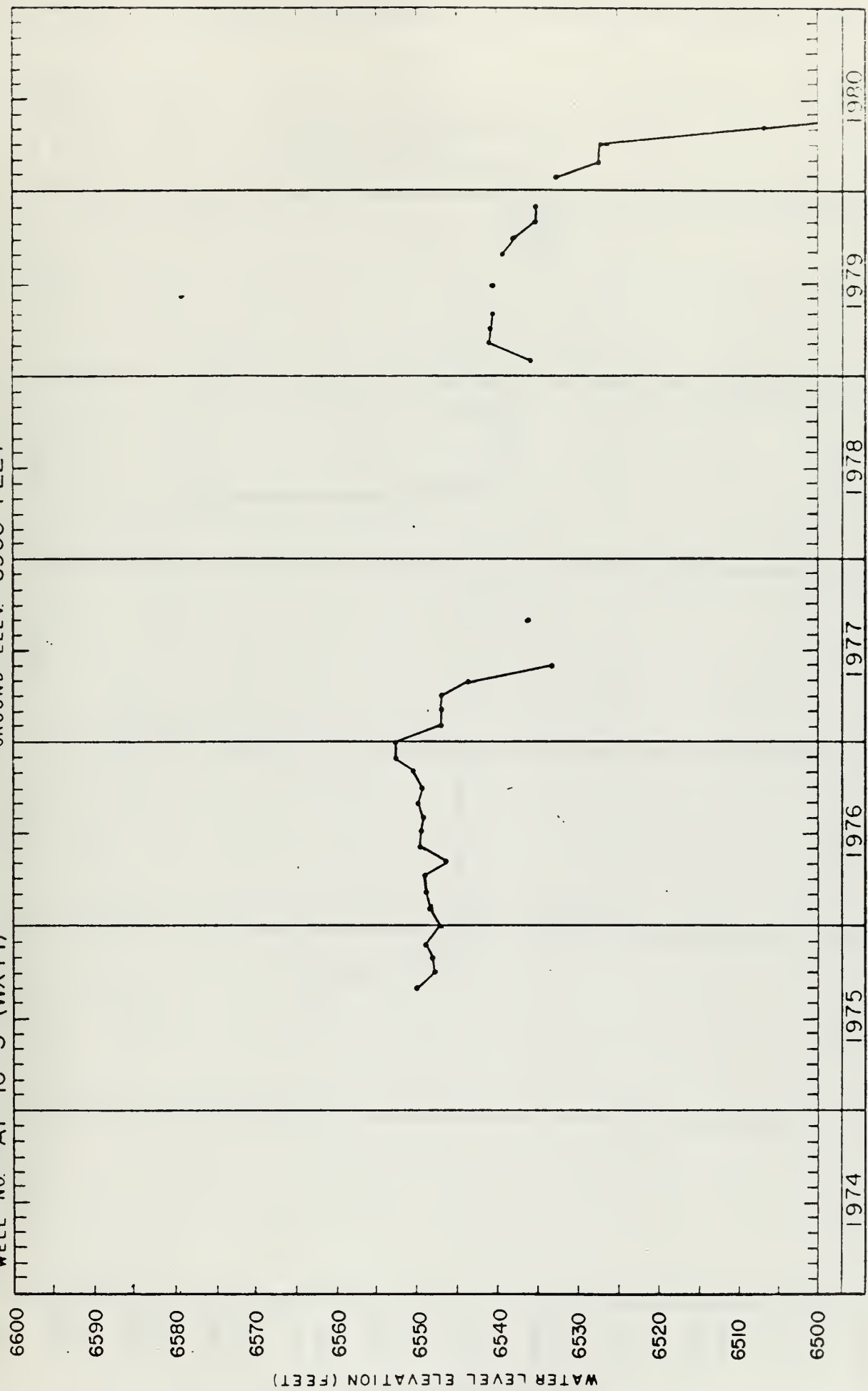
WATER LEVEL DATA





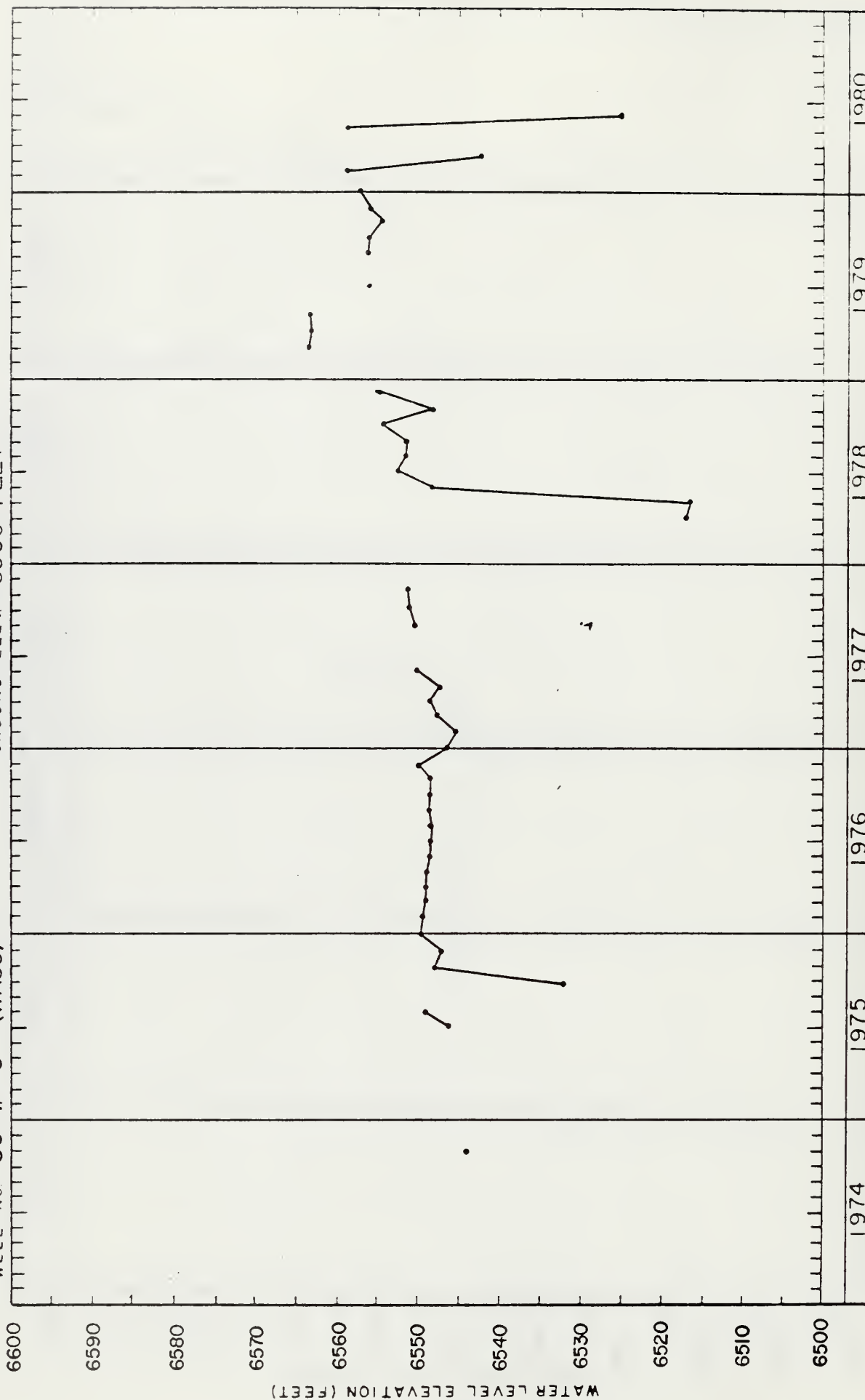
WATER LEVEL DATA

WELL NO. AT-IC-3 (WX44) GROUND ELEV. 6905 FEET

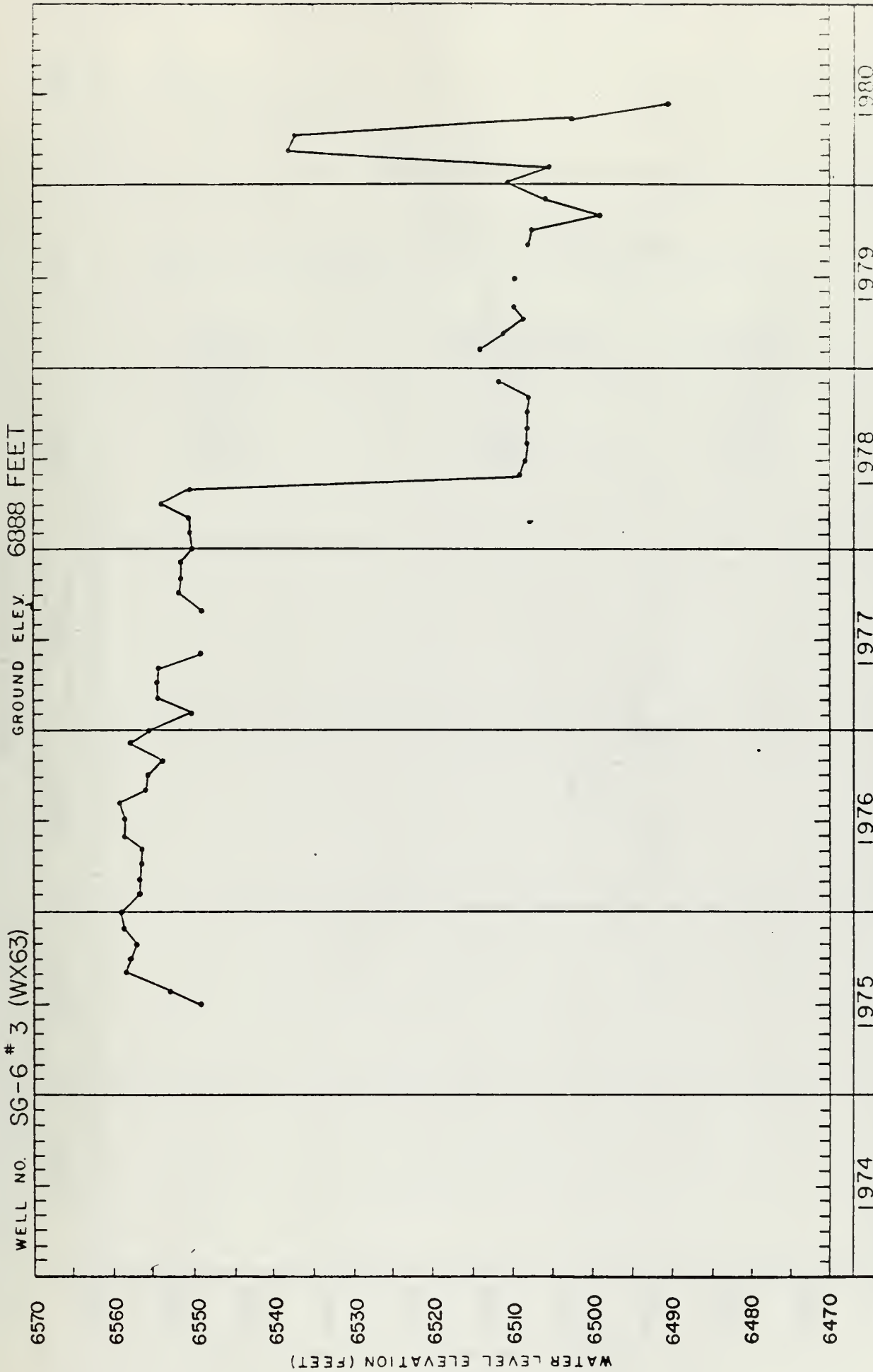


WATER LEVEL DATA

WELL NO. SG-II # 3 (WX55) GROUND ELEV. 6900 FEET



WATER LEVEL DATA

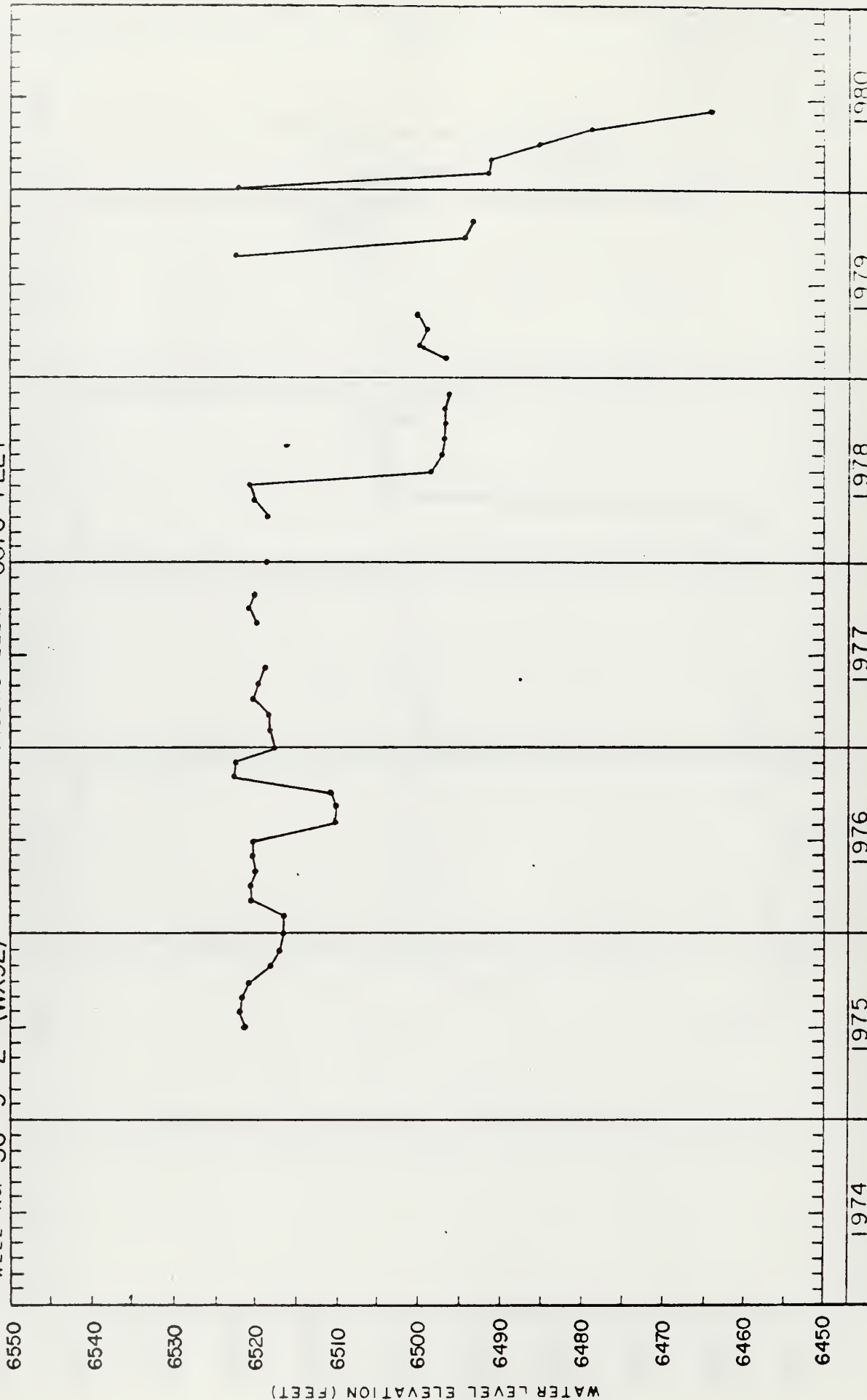


WATER LEVEL DATA

WELLS



WELL NO. SG-9 # 2 (WX92) GROUND ELEV. 6870 FEET



WATER LEVEL DATA

TABLE 2.2.1.4-3

Index to Stevens Recorder Data for Upper Aquifer Wells

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
SG-1-2	WX12	I-152
SG-17-2	WX17	I-154
SG-19	WX19	I-156
SG-20	WX20	I-157
SW-9-2	WX92	I-158

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX12 (DISTANCE FROM SURFACE IN FEET)YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1											70.60	72.03
2											70.72	72.03
3											70.73	72.03
4											70.87	72.13
5											71.09	↗
6											71.12	
7											71.12	
8											71.12	
9											71.20	
10											71.30	
11											71.49	↘
12											71.59	72.13
13											71.80	↗
14											71.86	
15											72.02	
16											↗	
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27											↘	
28											72.02	
29											70.40	72.03
30											70.57	72.03
31											70.56	↘
AVG.												

PLUGGED

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX12

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				79.54	84.80							
2				↑	84.99							
3					85.15							
4					85.17							
5		PLUGGED			85.18							
6		(from 1/1/80			85.17							
7		to 3/9/80)			85.19							
8												
9					85.15							
10			79.55									
11			79.54		85.18							
12			79.54		85.39							
13			79.55		85.51							
14			79.54		85.49							
15			79.54		85.45							
16			79.54		85.56							
17			79.55		85.73							
18			79.55		85.81							
19			79.54		85.82							
20			↑	79.54	85.83							
21				84.28								
22				84.32								
23				84.39								
24				84.42								
25				84.52								
26												
27				84.68								
28				84.80								
29				84.84								
30			↓	84.76								
31			79.54									
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX17

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-											386.88	386.84
-											386.97	386.84
3											386.92	386.90
4											386.87	386.90
5											386.95	RF
6											386.96	↑
7											386.92	↑
8											386.83	↑
9											386.74	↓
10											386.80	RF
11											386.88	↑
12											386.92	
13											386.92	
14											386.94	
15											386.96	
16											386.96	
17											386.91	
18											386.80	
19											386.80	
20											386.78	
21											386.87	
22											386.88	
23											386.81	
24											386.75	
25											386.69	
26											386.63	
27											386.78	
28											386.89	
29											386.89	
30											386.83	386.88
31											386.83	↓
AVG.												

PLUGGED

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX17

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	✓	386.58										
2		↗										
3												
4												
5												
6												
7			Steven's recorder instrument									
8			removed March 7, 1980									
9	PLUGGED											
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22	✓											
23	386.58											
24	↑											
25		✓										
26		386.58										
27												
28												
29	↓											
30												
31	386.58											
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX19

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	↑	RF	RF	RF	51.41							
2		↑	↑	↑	51.45							
3					51.38							
4					51.38							
5					51.38							
6	PLUGGED				51.38							
7												
8												
9												
10												
11												
12												
13	↓											
14	RF											
15												
16												
17												
18												
19												
20				↓								
21				RF								
22												
23												
24												
25												
26												
27												
28		↓										
29		RF										
30	↓		↓									
31	RF		RF									
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX20

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				52.55	59.89							
2				53.03	59.88							
3				53.51	59.55							
4				53.85	59.12							
5				54.14	59.62							
6				54.49	59.77							
7				55.00	59.65							
8				55.25	59.40							
9				55.43	59.40							
10	Monitoring of			55.69	59.27							
11	Well WX20			56.32	59.19							
12	was initiated			56.60	59.30							
13	on March 28, 1980			56.65	59.31							
14				56.67	59.24							
15				56.94	59.38							
16				57.36	59.66							
17				57.87	59.86							
18				58.24	60.00							
19				58.35	59.99							
20				58.66	59.99							
21				58.82								
22				58.88								
23				58.87								
24				RF								
25												
26												
27												
28			50.20									
29			50.92									
30			51.42									
31			52.09									
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX92

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
-											350.01	350.01
-											↑	↑
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												↓
13												350.01
14												↑
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25										350.00		
26										↑		
27										↓		
28										350.00		
29										350.01		
30										350.01	350.01	
31										350.01		
AVG.												

PLUGGED

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WX92

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	↑	350.57	↑									
2	↓	↑										
3	PLUGGED											
4	↓											
5	↓		DATA									
6												
7	↓											
8	344.40		MISSING									
9	↑											
10			↓									
11												
12												
13												
14			↓									
15												
16		↓										
17		350.57										
18		350.56										
19		↑										
20	↓											
21	344.40											
22	RF											
23	RF											
24	RF	↓										
25	350.62	350.56										
26	350.57											
27	↑											
28												
29	↓											
30												
31	350.57											
AVG.												

TABLE 2.2.1.4-4

CH-TRACT  
WATER LEVELS IN UPPER AQUIFER WELLS  
REQUIRED BY WATER AUGMENTATION PLAN  
FOR SAMPLE DATE SHOWN

YR	MO	WELL ID - MEASURING POINT ELEVATION (FT)									
		WX64	WX65	WX67	WX69	WX71	WX72	WX73	WX75		
79	8	7178	6390	6740	7350	6580	6805	8142	7583		
	9										
	10										
	11										
80	12										
	1										
	2										
	3										
	4										
	5										

PLUGGD = WELL PLUGGED  
 DRY = WELL DRY  
 FLWING = WELL FLOWING  
 INACCS = WELL INACCESSABLE

WELLS





#### 2.2.1.5 Lower Aquifer Wells

Water levels for Lower Aquifer Wells for this time period are presented in this section. The deep well monitoring network is presented in Section 2.2.1.4, Figure 2.2.1.4-1.

<u>Tables/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Table 2.2.1.5-1	<u>DMP Requirements</u> Water Levels in Lower Aquifer Wells	I-162
Table 2.2.1.5-2	Index to Hand Plots of Water Levels in Lower Aquifer Wells	I-163
Table 2.2.1.5-3	Index to Stevens Recorder Data for Lower Aquifer Wells	I-181
Table 2.2.1.5-4	<u>WAP Requirements</u> Water Levels in Lower Aquifer Wells Required by Water Augmentation Plan	I-188

An attempt has been made to refer to all stations by their four-digit computer station codes. For additional information on these codes refer to Section 4.0.

TABLE 2.2.1.5-1

CH-TRACT  
WATER LEVELS IN LOWER AQUIFER WELLS  
FOR SAMPLE DATE SHOWN

WELL ID	DEPTH (FT)	WY03	WY10	WY12	WY17	WELL ID - MEASURING POINT ELEVATION (FT)								WY62	WY81	WY91
						WY45	WY46	WY52	WY54	WY61	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)			
6452		6743	6952	6428	7036	6906	6906	6903	6903	6890	6890	6890	6890	6540	6540	6873
74	1		PLUGGED	6353	6647	6512	6518	6521	6546	6547	6489	FLWING	6520			
	2		6537	6353	6648	6514	6513	6521	6545	6548	6529	FLWING	6523			
	3		6536	6353		6513	6514	6523	6547	6551	6491	FLWING	6523			
	4		PLUGGED	6353	6650	6514	6513	6515	6543	6548	6528	FLWING	6523			
	6		6579	6348	6650	6514	6514	6522	6544	6498	6499		6499			
	7											FLWING				
	8	6389	6579	6353	6634	PLUGGED	6513	6522	6543	6549	6499	FLWING	6496			
	9	6385	6576	6353	6651	6512	6512	6522	6544	6547	6498		6522			
	10	6383	6572	6354	6651	6510	6511	6523	6543	6545	6506	FLWING	6523			
	11	6386	6573			6514	6514	6523	6542	6544	6497					
	12			6353	6638			6525	6541		6523	FLWING	6489			
70	1	6378	6580	6351	6652	6520	6520	6523	6543	6540	6511	FLWING	6522			
	2	6352		6354	6652	6519	6529	6532	6559	6502	6510		6522			
	3			6349	6652	6517	6517			6501	6508		6522			
	4			6351		6511	6511	6523	6534	6534	6497		6520			
	5			6348	6652	6506	6505	6523	6528	6532	6494		6519			

PLUGGED= WELL PLUGGED

DRY = WELL DRY

FLWING= WELL FLOWING

INACCS= WELL INACCESSIBLE

NS = WELL NOT SAMPLED

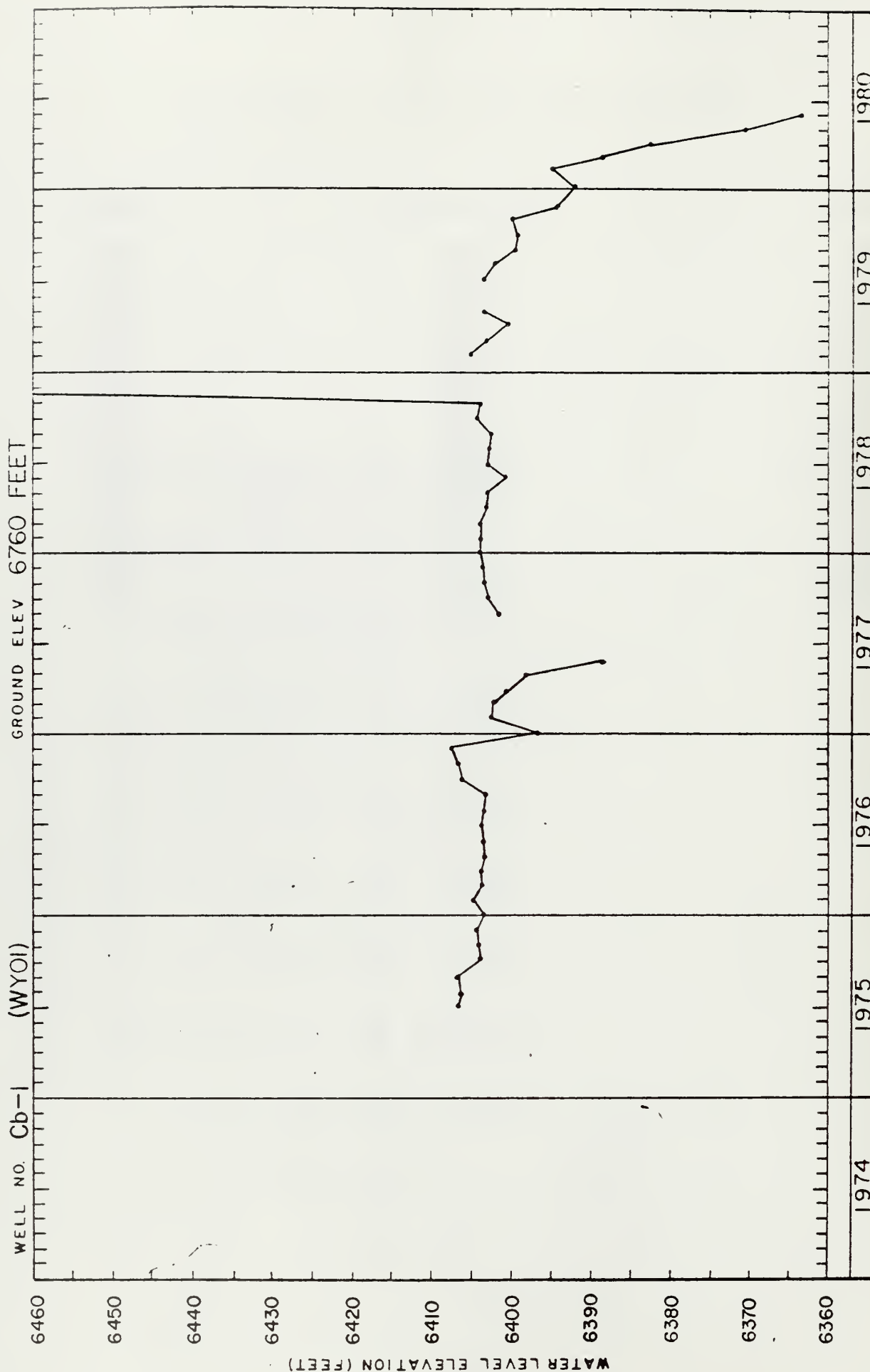
TABLE 2.2.1.5-2

## HAND PLOTS OF WATER LEVELS IN LOWER AQUIFER WELLS

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
Cb-1	WY01	I-164
Cb-3	WY03	I-165
SG-10	WY09	I-166
SG-10	WG10	I-167
SG-10R	WY10	I-168
SG-1-1	WY12	I-169
SG-17-1R	WY17	I-170
AT-1	WY44	I-171
AT-1C-1	WY45	I-172
AT-1C-2	WY46	I-173
SG-11-1R	WY52	I-174
SG-11-2	WY54	I-175
SG-6-1	WY61	I-176
SG-6-2	WY62	I-177
SG-8	WY80	I-178
SG-8R	WY81	I-179
SG-9-1	WY91	I-180



WELL NO. Cb-1 (WYOI) GROUND ELEV 6760 FEET



WATER LEVEL DATA

WELL NO. 'Cb-3 (WYO3)

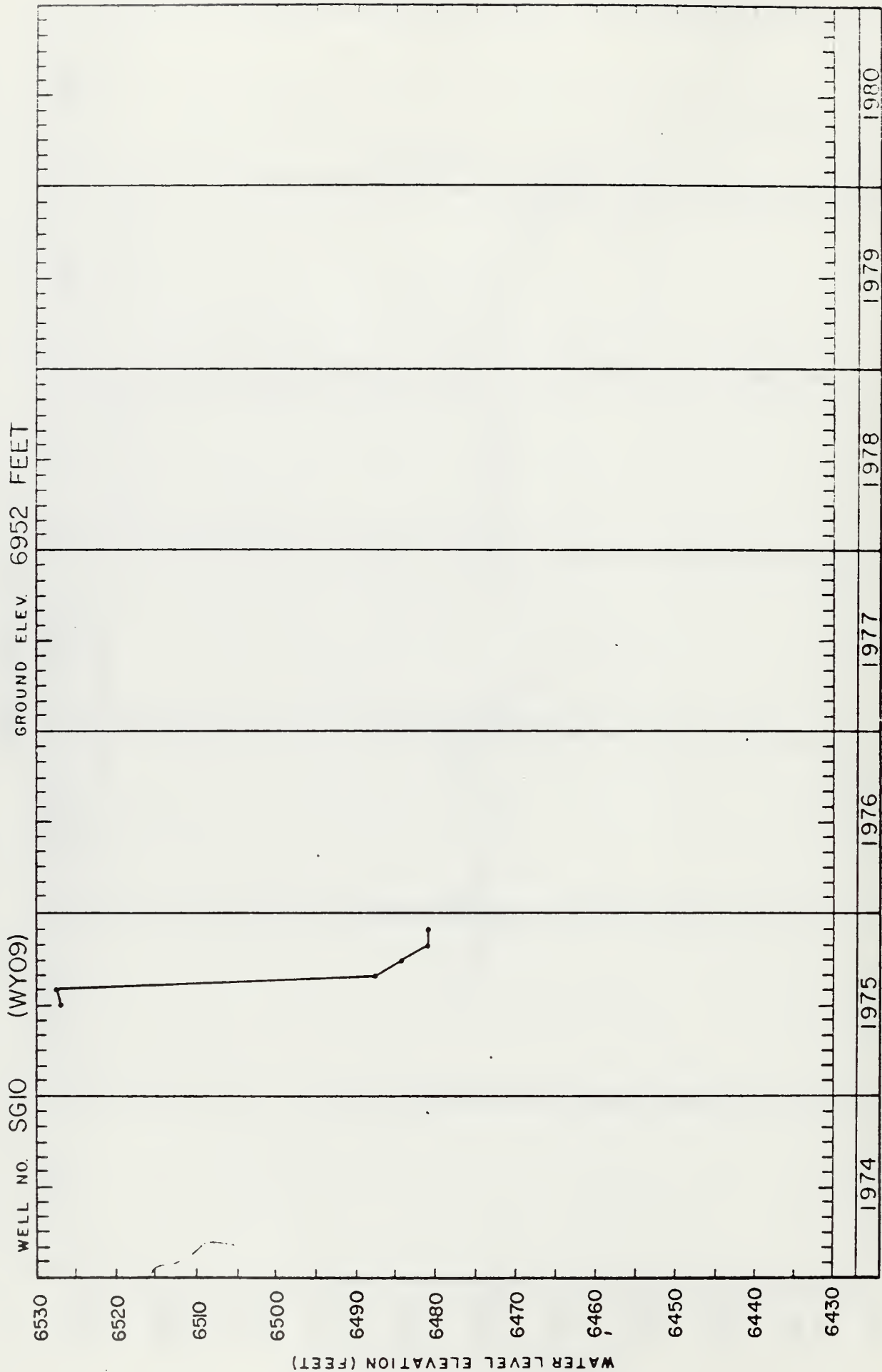
GROUND ELEV. 6743 FEET

6420  
6410  
6400  
6390  
6380  
6370  
6360  
6350  
6340  
6330  
6320

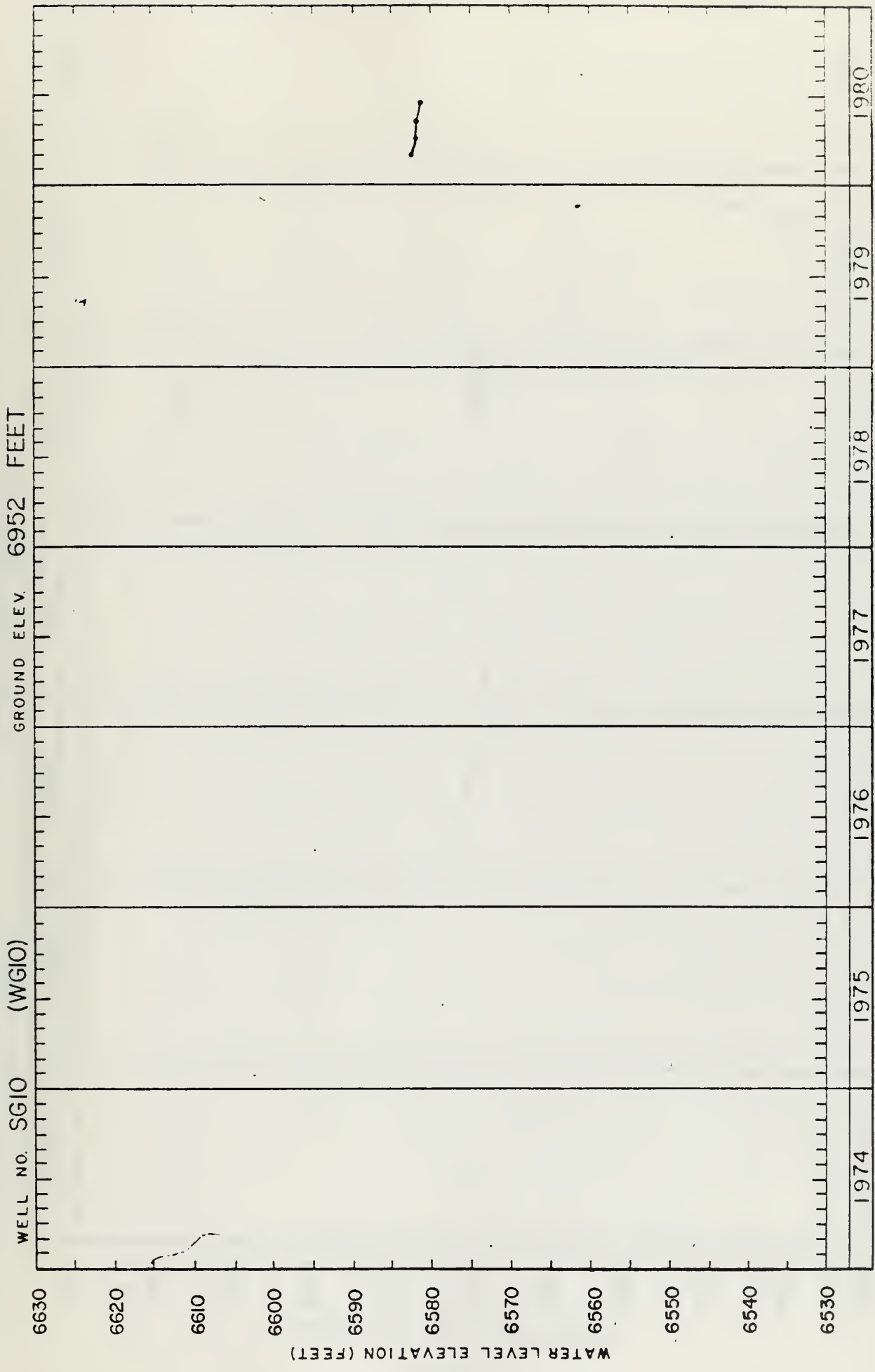
WATER LEVEL ELEVATION (FEET)

1974 1975 1976 1977 1978 1979 1980

WATER LEVEL DATA

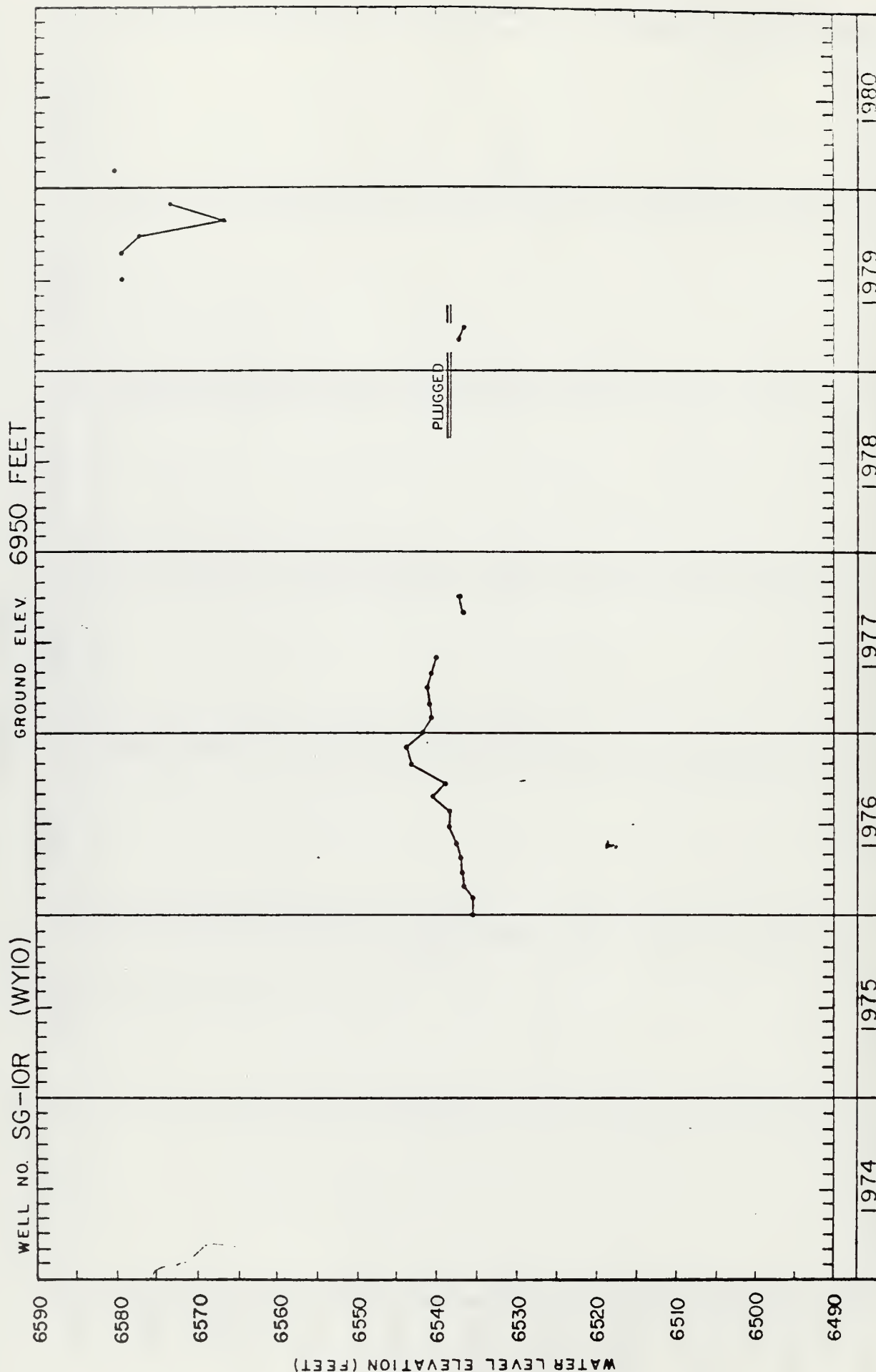


WATER LEVEL DATA

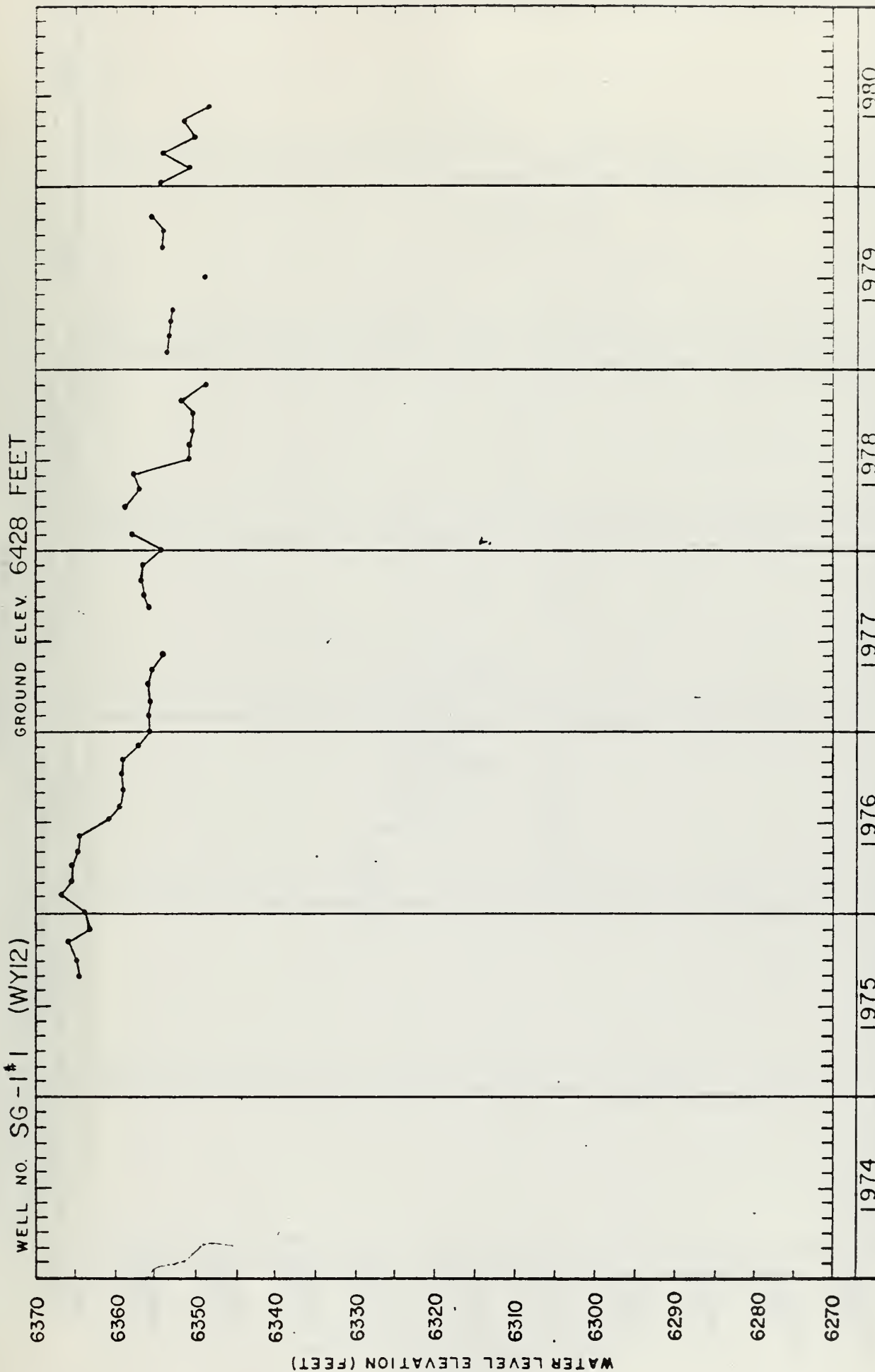


WATER LEVEL DATA



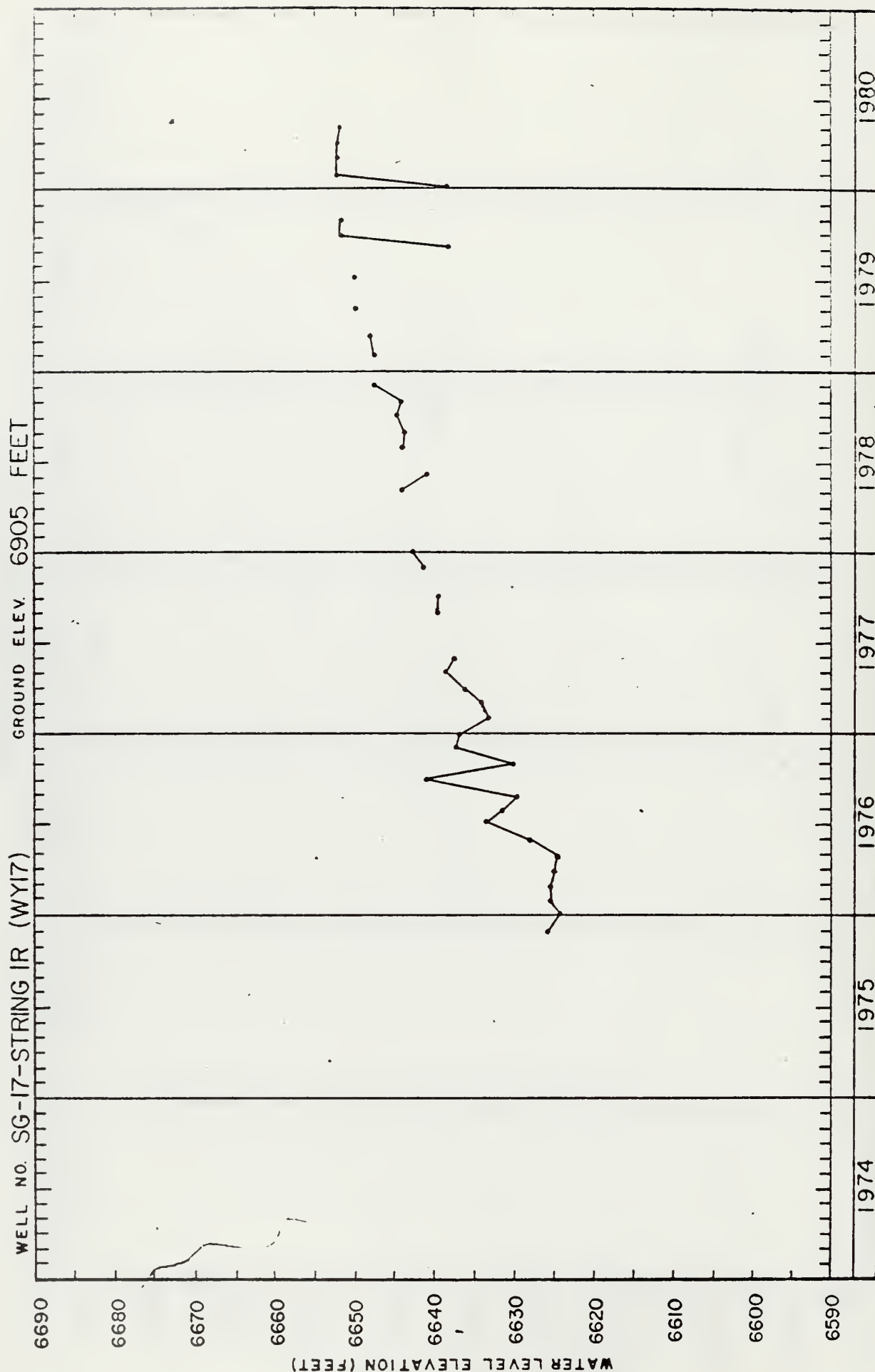


WATER LEVEL DATA

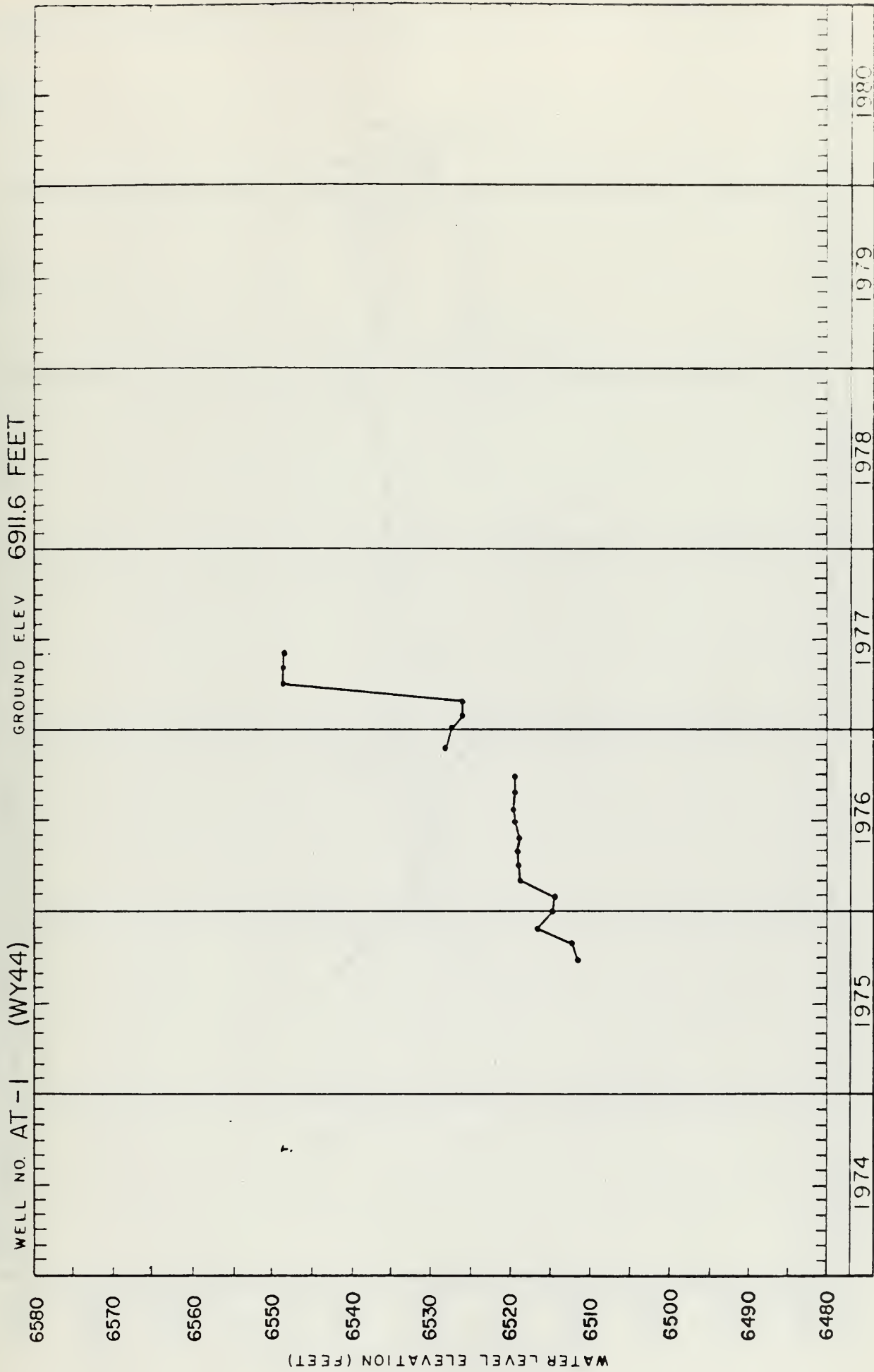


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WATER LEVEL DATA



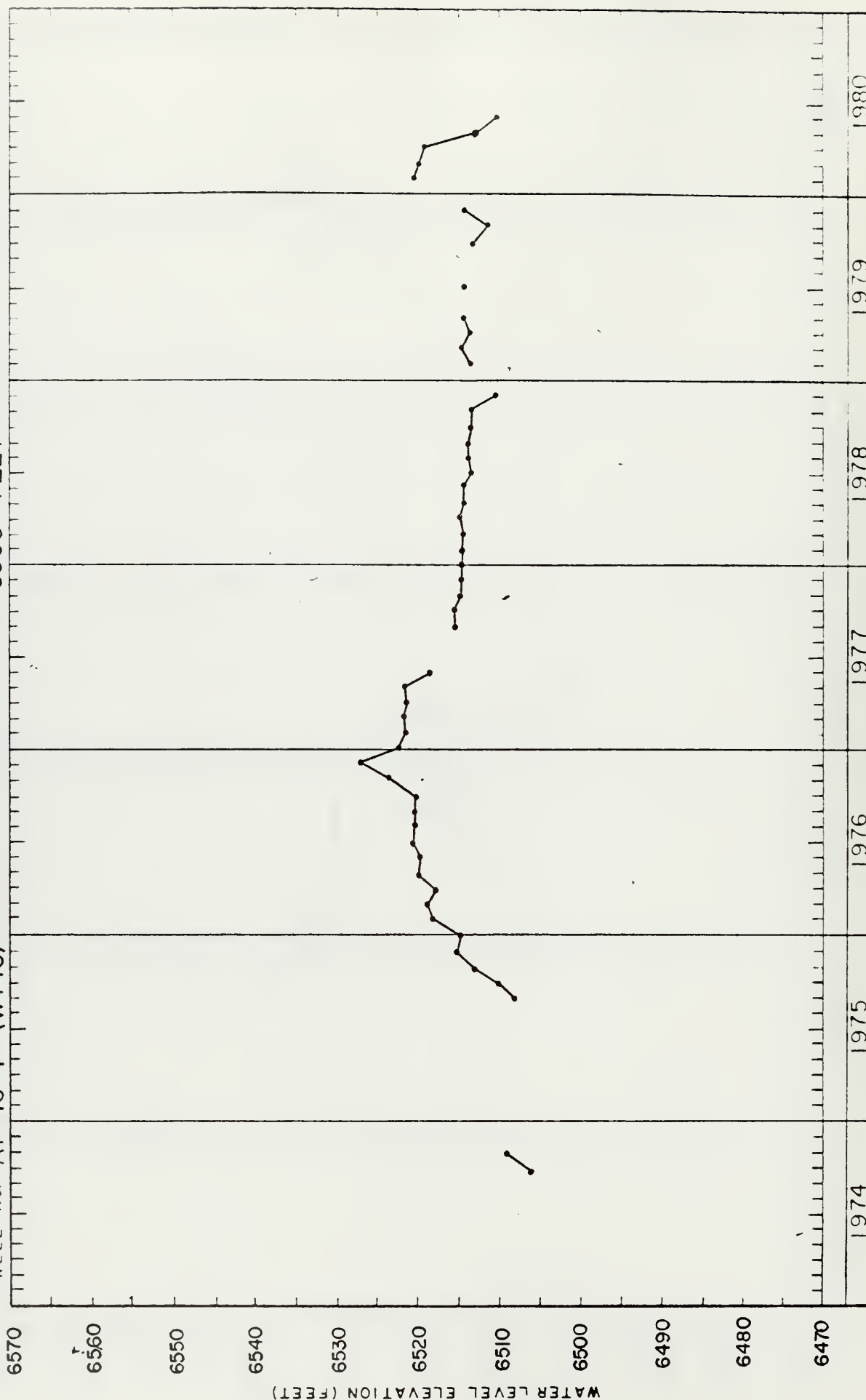
WATER LEVEL DATA



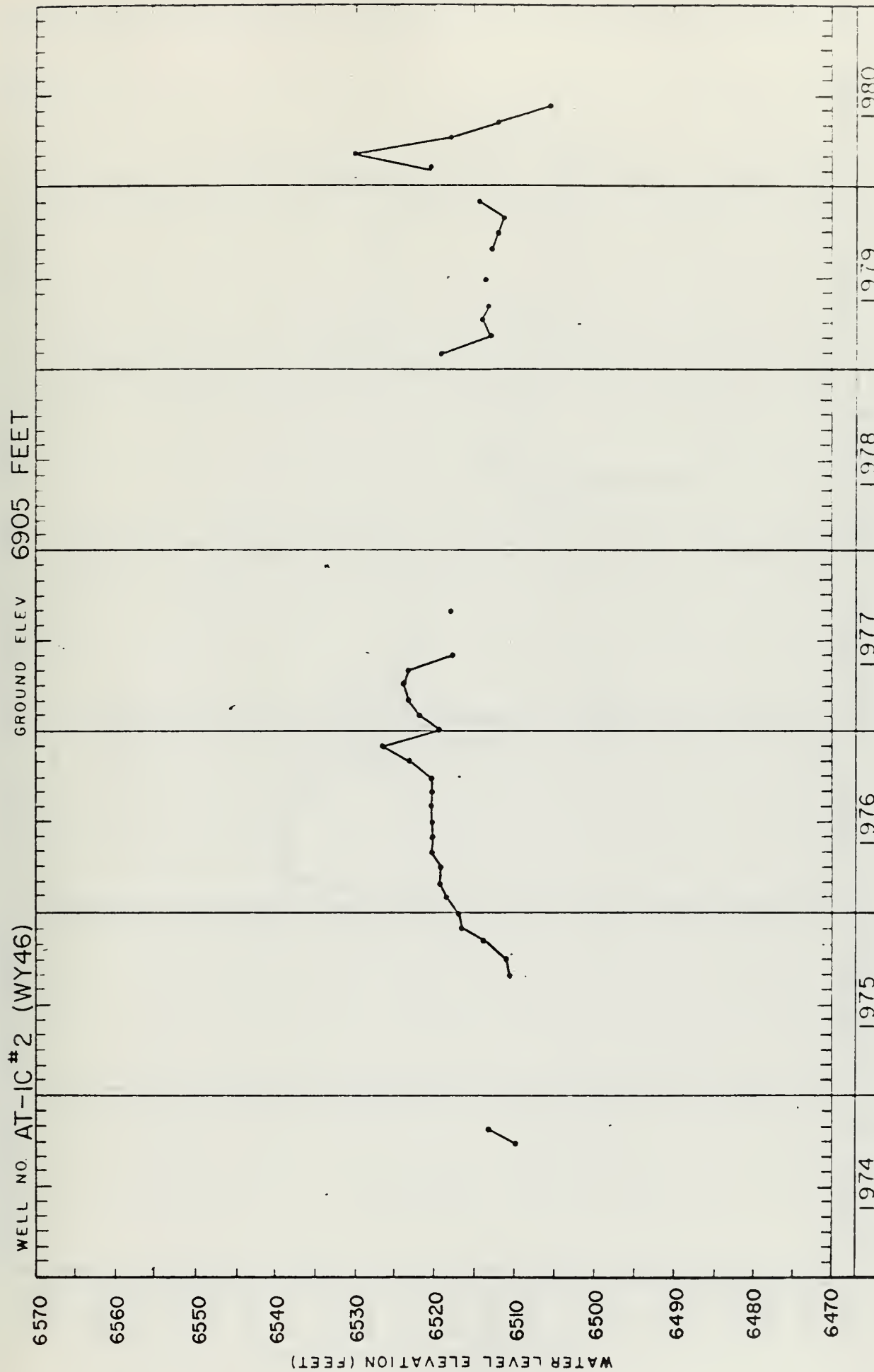
WATER LEVEL DATA



WELL NO. AT-IC#1 (WY45) GROUND FLEV 6905 FEET



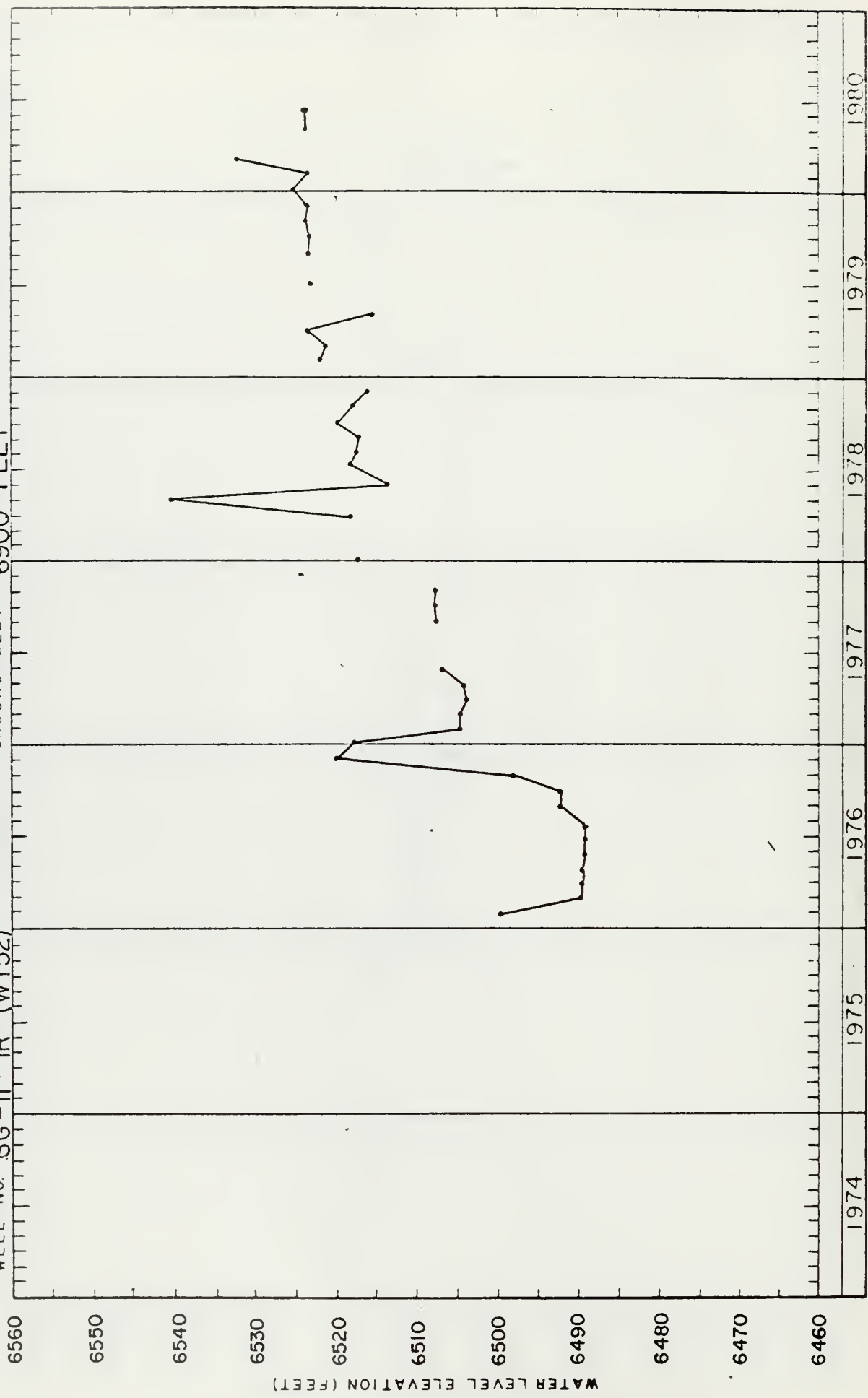
WATER LEVEL DATA



WATER LEVEL DATA

GROUND ELEV 6900 FEET

WELL NO. SG-II # IR (WY52)



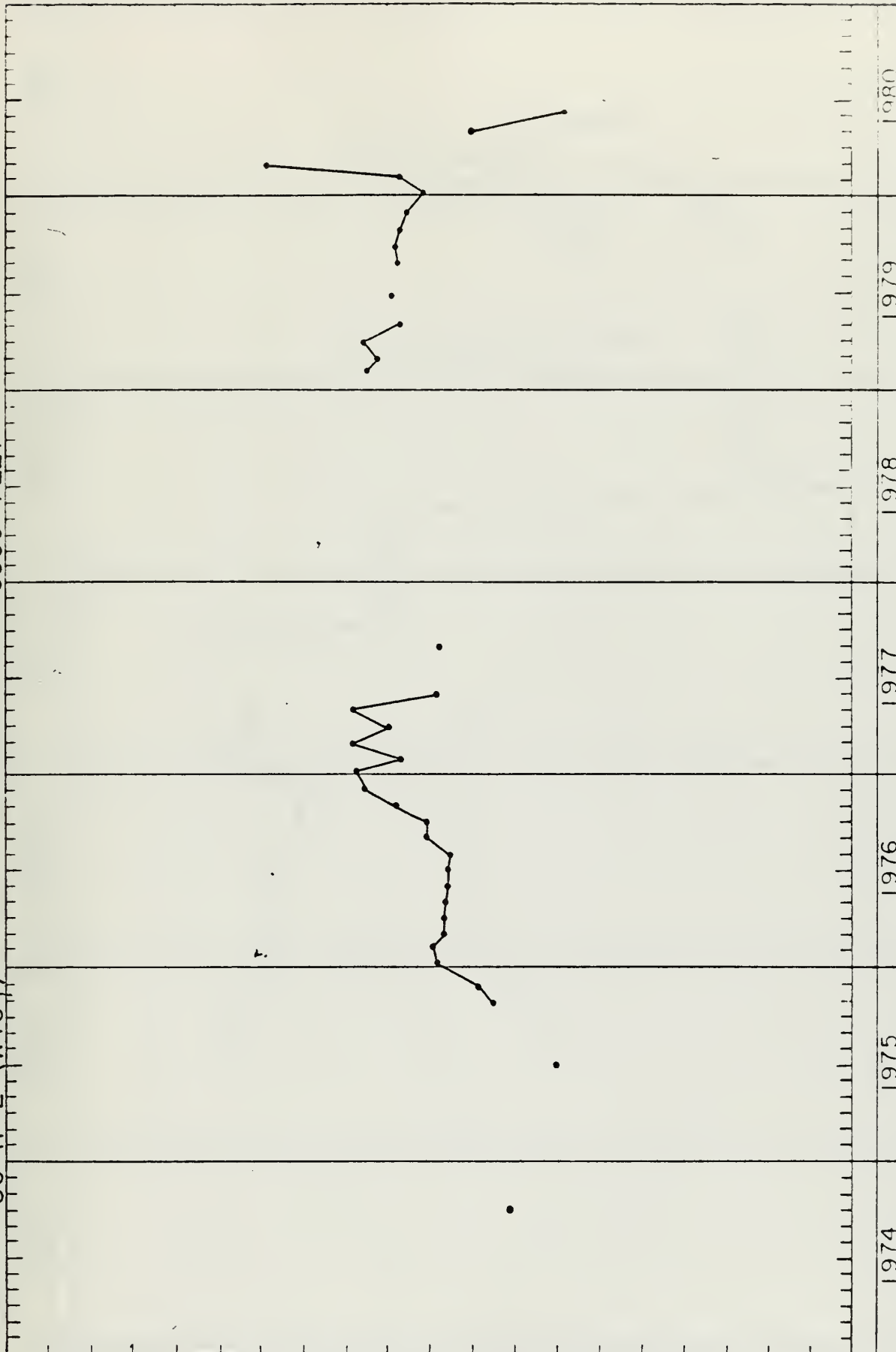
WATER LEVEL DATA

GROUND ELEV 6900 FEET

WELL NO. SG-11-2 (WY54)

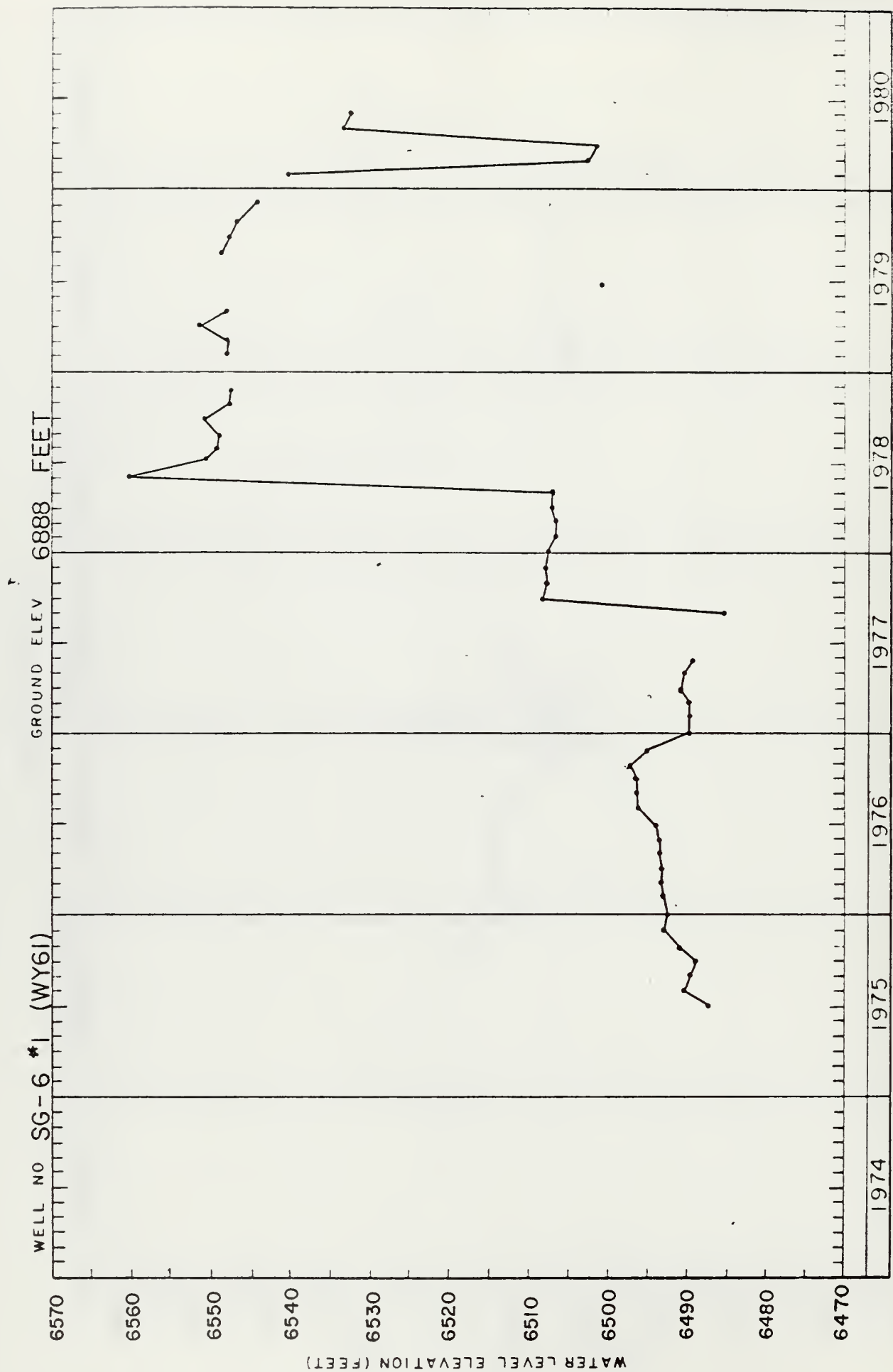
6590  
6580  
6570  
6560  
6550  
6540  
6530  
6520  
6510  
6500  
6490

WATER LEVEL ELEVATION (FEET)



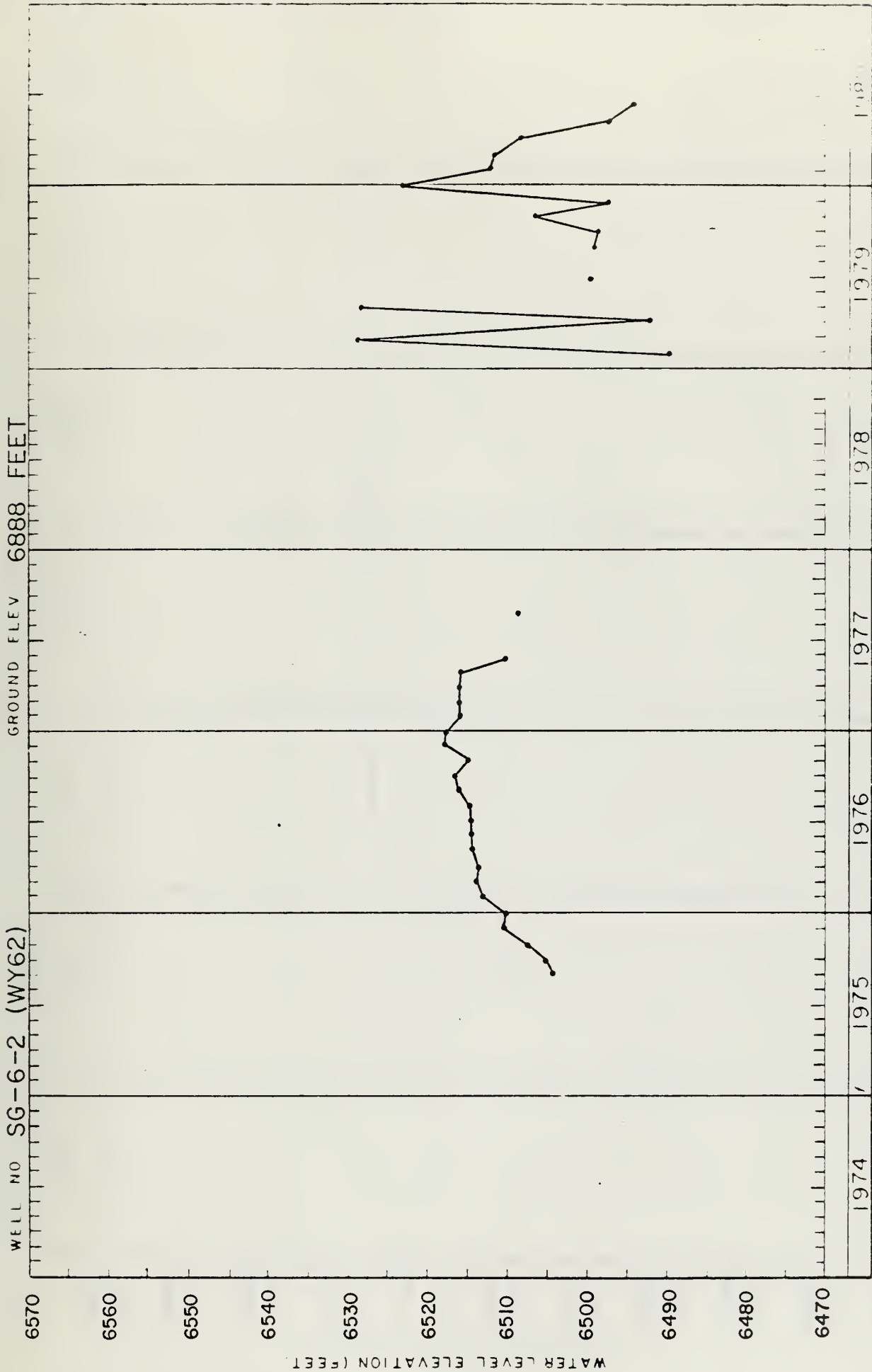
WATER LEVEL DATA





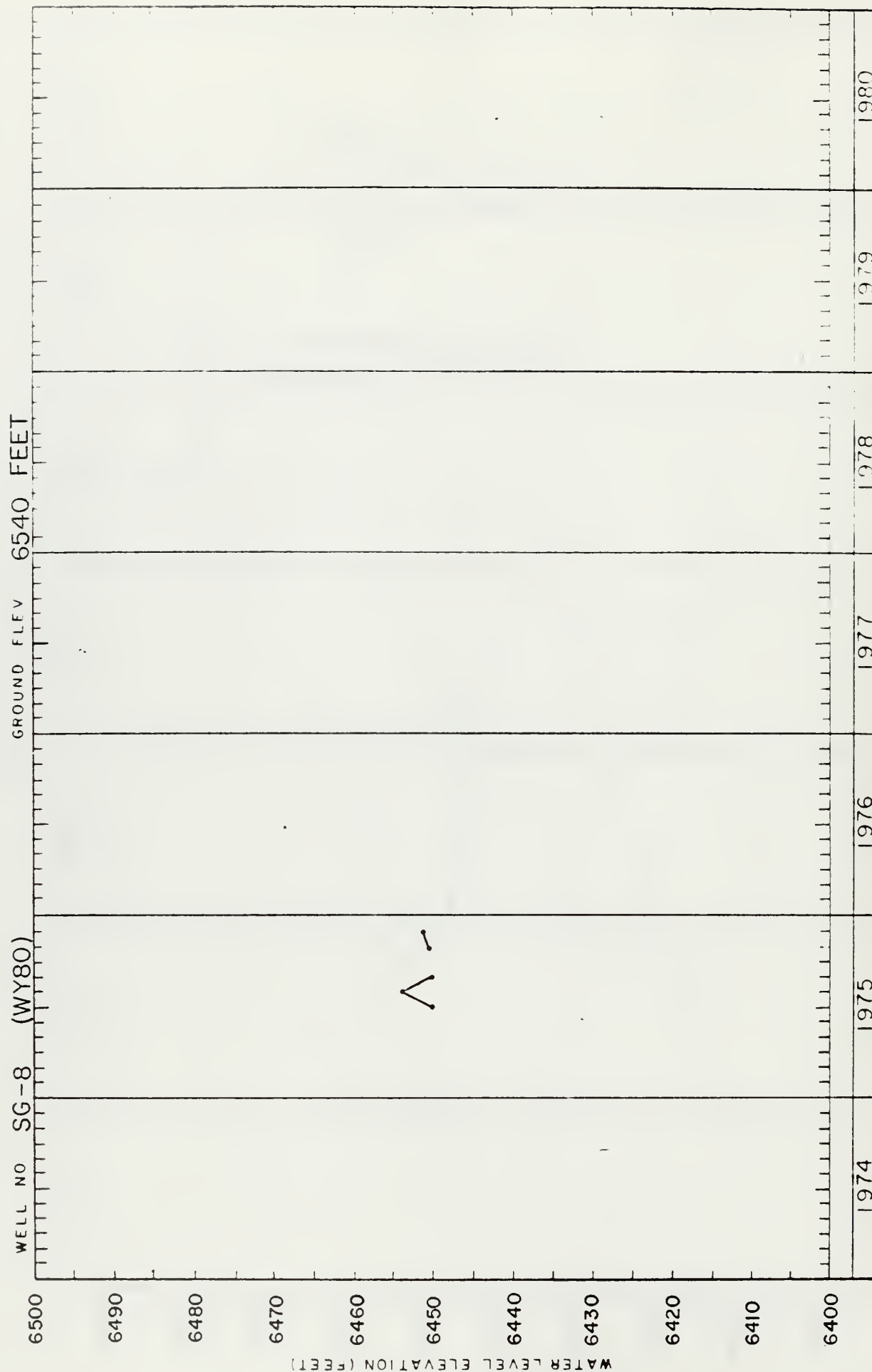
WATER LEVEL DATA

WELL NO SG-6-2 (WY62) GROUND ELEV 6888 FEET

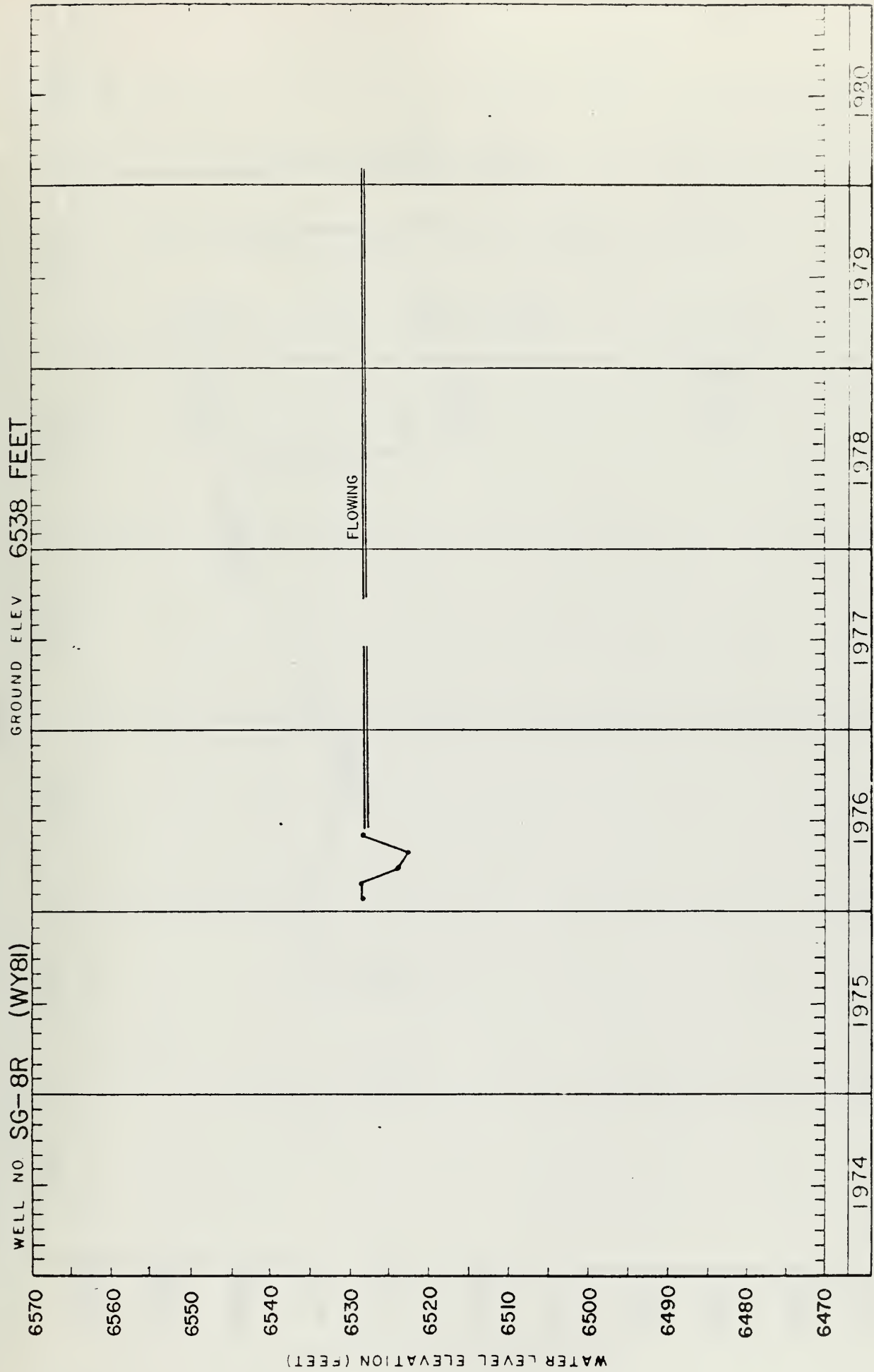


WATER LEVEL DATA

WELL NO SG-8 (WY80) GROUND FLEV 6540 FEET



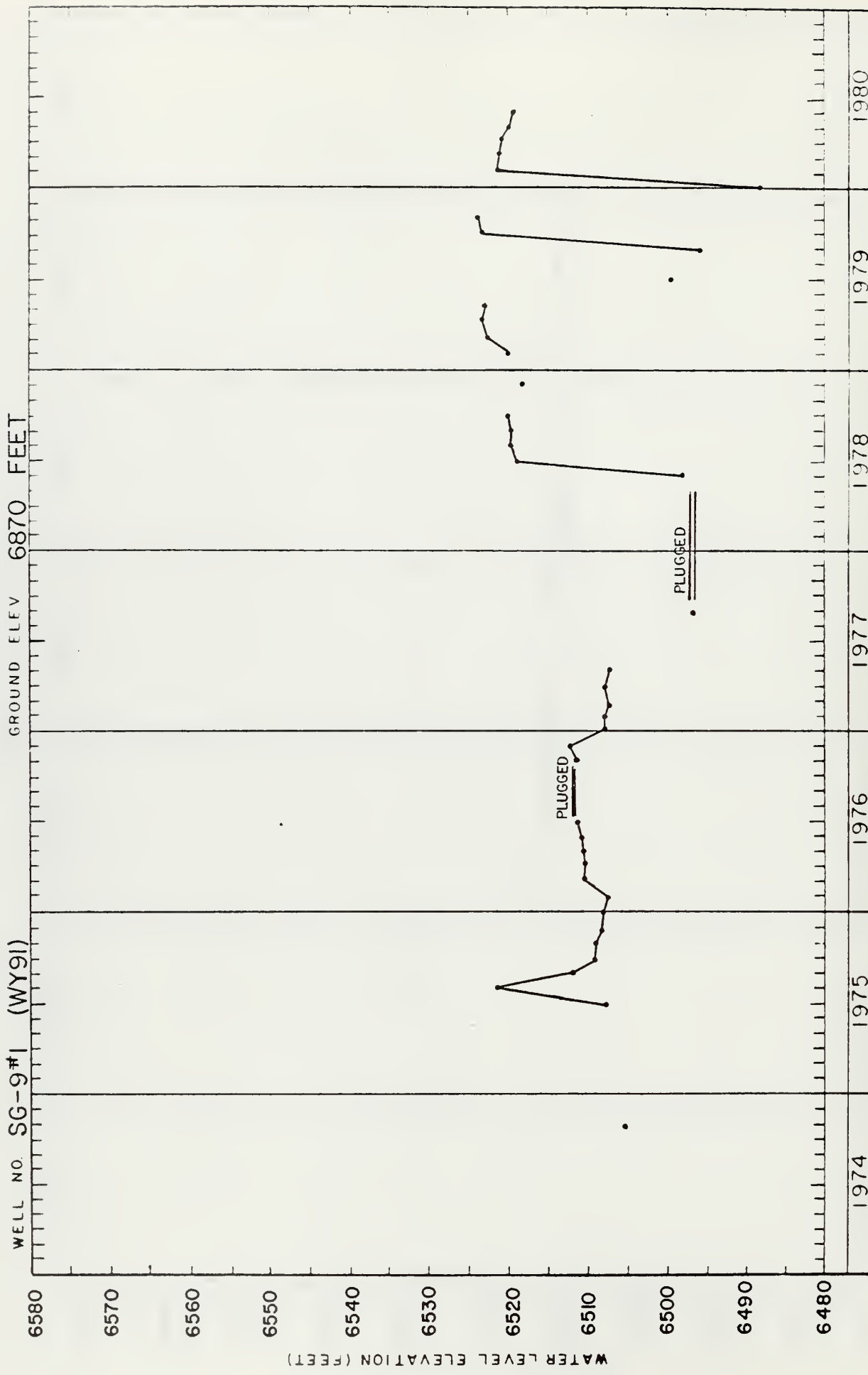
WATER LEVEL DATA



WATER LEVEL DATA



WELL NO. SG-9#1 (WY91) GROUND ELEV. 6870 FEET



WATER LEVEL DATA

TABLE 2.2.1.5-3

Index to Stevens Recorder Data for Lower Aquifer Wells

<u>Well No.</u>	<u>Computer Code</u>	<u>Page No.</u>
Cb-1	WY01	I-182
SG-1-1	WY12	I-183
SG-17-1R	WY17	I-184
SG-9-1	WY91	I-186

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WY01 (DISTANCE FROM SURFACE IN FEET) YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1								362.7				
2								362.7				
3								362.7				
4								362.7				
5								362.7				
6								362.7				
7								362.7				
8								362.7				
9								362.7				
10								362.7				
11								362.7				
12								362.7				
13								362.7				
14								362.7				
15								362.7				
16								362.7				
17								362.7				
18								362.7				
19							362.1	362.7				
20							362.1	362.7				
21							362.1	362.7				
22							362.1					
23							362.1					
24							362.1					
25							362.1					
26							362.1					
27							362.7					
28							362.7					
29							362.7					
30							362.7					
31							362.7					
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WY12

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1				75.47	78.17							
2				75.59	78.32							
3				75.75	78.41							
4				75.80	78.51							
5				75.79	78.60							
6				75.83	78.66							
7				76.06	78.77							
8				76.17	78.84							
9				76.17	78.86							
10			74.66	76.19	79.01							
11			74.64	76.36	79.13							
12			74.75	76.47	79.35							
13			74.78	76.53	79.45							
14			74.78	76.53	79.48							
15			74.73	76.64	79.62							
16			74.90	76.82	79.73							
17			74.98	76.91	79.97							
18			74.90	76.95	80.08							
19			74.91	77.02	80.20							
20			75.01	77.04	80.31							
21			74.95	77.10	80.37							
22			74.92									
23			75.06									
24			75.06									
25			75.09									
26			75.18									
27			75.19									
28			75.37									
29			75.44									
30			75.41									
31			75.40									
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WY17 (DISTANCE FROM SURFACE IN FEET)YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1												RF
2											RF	↑
3											↑	
4												
5												
6												
7												
8												
9												↓
10												RF
11												↑
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29											↓	
30											RF	
31												↓
AVG.												



## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WY17

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	↑	401.54										
2		↑										
3												
4												
5												
6												
7				Steven's recorder instrument removed								
8				March 7, 1980								
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22	↓											
23	401.58											
24	401.54											
25	↑	↓										
26		401.54										
27												
28												
29												
30	↓											
31	401.54											
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WY91

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1979

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1											RF	379.90
2											↑	↑
3												
4												
5											↓	
6											RF	
7											379.89	
8											↑	
9												
10												
11											↓	
12											379.89	↓
13											379.90	379.90
14											↑	↑
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25										RF		
26										↑		
27												
28												
29											↓	
30										↓	379.90	
31										RF		↓
AVG.												

## STEVEN'S RECORDER MAXIMUM WELL DEPTHS

STATION: WY91

(DISTANCE FROM SURFACE IN FEET)

YEAR: 1980

DAY	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
1	↑	382.17	↑									
2	↑	↑										
3	↑											
4	↑											
5	↑											
6	↓											
7	381.35											
8	↑											
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19		382.17										
20	↓	382.16										
21	381.35	↑										
22	RF											
23	RF	↓										
24	RF	382.16										
25	382.19	382.17										
26	382.17											
27	↑											
28												
29												
30	↓											
31	382.17											
AVG.												

CB-TRACT  
WATER LEVELS IN LOWER AQUIFER WELLS  
REQUIRED BY WATER AUGMENTATION PLAN  
FOR SAMPLE DATE SHOWN

YR	MO	WELL ID - MEASURING POINT ELEVATION (FT)										DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
		WY64	WY65	WY66	WY67	WY68	WY69	WY70	WY71	WY72	WY75							
79	8	6423	6313	FLWING	6235	6511	7038	INACCS	INACCS	6773		FLWING	7073	INACCS				
	9																	
	10	6444	6313	FLWING	6235	6510	6886	INACCS	INACCS	6773		FLWING	7075	INACCS				
	11	6445	6313	FLWING	6235	6509	6885	INACCS	INACCS	6773		FLWING	7073	INACCS				
80	12	6444	6313	FLWING	6235	6510	6885	INACCS	INACCS	6773		FLWING	7072	INACCS				
	1	6444	6313	FLWING	6235	6510	6886	NS	6574	6774		FLWING	7077	NS				
	2	6444	6313	FLWING	6235	6509	6885	6946	6574	6774		FLWING	7077	6675				
	3	6444	6313	FLWING	6235	6509	6885	6950	6574	6774		FLWING	7077	6675				
	4	6443	6312	FLWING	6235	6509	6885	6948	6573	6773		FLWING	7077	6675				
5	6443	6311	FLWING	6235	6509	6886	6951	6571	6771		FLWING	7077	6675					

I-188







#### 2.2.1.6 Impoundments/Discharges/NPDES

Flow data for this reporting period is presented with the water quality tables in Section 2.2.2.6 in Tables 2.2.2.6-1 (weekly) and 2.2.2.6-2 (monthly) for the A/B discharge point (WN40).

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SHALE DUMPS





#### 2.2.1.7 Shale Dumps

Shaft sinking commenced in 1979. No significant amount of shale was brought to the surface during this reporting period as a result of shaft sinking activity.

A seepage monitoring system was constructed and put into operation in May, 1980.

The water samples are currently in for analysis; therefore, there is not any data to be presented at this time.

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WATER QUALITY



### 2.2.2 Water Quality

This section presents water quality data of surface streams, springs and seeps, alluvial and bedrock wells, impoundments, shale dumps and sediments. Stations required under the Development Monitoring Plan (DMP) and the Water Augmentation Plan (WAP) are identified within each subsection. Remark codes used in the USGS water quality data tables are shown in Table 2.2.2-1.



TABLE 2.2.2-1

Remark Codes for USGS  
Water Quality Data

<u>CHARACTER</u>	<u>REMARK</u>
E	Estimated Value
<	Actual value is known to be less than value shown
>	Actual value is known to be greater than value shown
M	Presence of material verified but not quantified
N	Presumptive evidence of presence of material
ND	Material specifically analyzed for but not detected
K	Results based on colony count outside the acceptable range (non-ideal colony count)





### 2.2.2.1 Surface Streams

This section contains water quality data collected from the USGS stream gauging network, Figure 2.2.1.1-1. The water quality data presented is shown in Table 2.2.2.1-1.

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Table 2.2.2.1-1	Surface Water Data Presented	I-196
Table 2.2.2.1-2	Index to USGS Gauging Stations Water Quality Data	I-197

An attempt has been made to refer to all stations by their four-digit computer station codes. For additional information on these codes refer to Section 4.0.

TABLE 2.2.2,1-1

SURFACE WATER DATA PRESENTED  
ENVIRONMENTAL MONITORING REPORT

Stations	Daily Discharge (Flow)	Daily Mean Sediment & Discharged Data	Daily Dissolved Oxygen	Daily pH Readings	Daily Specific Conductance	Daily Temperature	Water Quality Data
09304800 (WU48)	(ND)				X	X	X
09306007*(WU07)	X		X		X	X	X
09306015 (WU15)	X						
09306022*(WU22)	X		X	X	X	X	X
09306025 (WU25)	X						X
09306028 (WU28)	X						X
09306033 (WU33)	X						
09306036 (WU36)	X						
09306039 (WU39)	X						
09306042 (WU42)	X				X	X	X
09306050 (WU50)	X						X
09306052 (WU52)	X						X
09306058*(WU58)	X		X	X	X	X	X
09306061*(WU61)	X		X	X	X	X	X
09306200 (WU00)	(ND)				X	X	X
09306222 (WU62)	(ND)				X	X	X
09306255 (WU55)	(ND)				X	X	X

\*Major Station

(ND) = Data Not Available



TABLE 2.2.2.1-2

## Index to USGS Gauging Stations Water Quality Data

<u>Station Designation</u>	<u>Computer Code</u>	<u>Page No.</u>
09304800	WU48	I-198
09306007	WU07	I-208
09306022	WU22	I-222
09306025	WU25	I-236
09306028	WU28	I-242
09306042	WU42	I-248
09306050	WU50	I-258
09306052	WU52	I-264
09306058	WU58	I-270
09306061	WU61	I-284
09306200	WU00	I-298
09306222	WU62	I-308
09306255	WU55	I-318

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHDS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
		MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
1	---	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---	---
14	654	632	643	641	641	647	641	641	641	641	641	641	641
15	655	630	645	641	641	647	641	641	641	641	641	641	641
16	655	643	650	641	641	647	641	641	641	641	641	641	641
17	652	641	648	641	641	647	641	641	641	641	641	641	641
18	650	641	647	641	641	647	641	641	641	641	641	641	641
19	650	630	641	641	641	647	641	641	641	641	641	641	641
20	650	624	634	641	641	647	641	641	641	641	641	641	641
21	684	618	651	641	641	647	641	641	641	641	641	641	641
22	624	611	617	617	617	617	617	617	617	617	617	617	617
23	627	609	618	618	618	618	618	618	618	618	618	618	618
24	618	597	609	609	609	609	609	609	609	609	609	609	609
25	603	593	599	599	599	599	599	599	599	599	599	599	599
26	605	594	599	599	599	599	599	599	599	599	599	599	599
27	596	593	595	595	595	595	595	595	595	595	595	595	595
28	---	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	684	593	628	628	628	628	628	628	628	628	628	628	628



## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 40004809304800 WHITE RIVER BELOW MEEKER, CO.  
LONGITUDE 1080533 DRAINAGE AREASTREAM 5928.00  
1024.00 DATUM 5928.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	MEAN	NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
				OCTOBER								
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	10.0	8.0	9.0	---	---	---	---	---	---	---	---	---
15	12.0	7.0	9.5	---	---	---	---	---	---	---	---	---
16	13.5	8.5	10.5	---	---	---	---	---	---	---	---	---
17	11.0	7.0	9.0	---	---	---	---	---	---	---	---	---
18	11.5	8.5	10.0	---	---	---	---	---	---	---	---	---
19	13.0	9.0	10.5	---	---	---	---	---	---	---	---	---
20	11.0	7.0	9.0	---	---	---	---	---	---	---	---	---
21	7.5	5.5	6.5	---	---	---	---	---	---	---	---	---
22	6.5	3.0	5.0	---	---	---	---	---	---	---	---	---
23	8.0	3.5	6.0	---	---	---	---	---	---	---	---	---
24	8.0	4.5	6.5	---	---	---	---	---	---	---	---	---
25	9.0	4.5	7.0	---	---	---	---	---	---	---	---	---
26	9.5	6.0	8.0	---	---	---	---	---	---	---	---	---
27	9.0	6.0	7.5	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	13.5	3.0	8.0	---	---	---	---	---	---	---	---	---

PROCESS DATE IS 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09304800 WHITE RIVER BELOW MEEKER, CO. STREAM SOURCE AGENCY USGS  
LATITUDE 400048 LONGITUDE 1080533 DRAINAGE AREA 1024.00 DATUM 5928.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												
17												
18												
19												
20												
21												
22												
23												
24												
25												
26												
27												
28												
29												
30												
31												
MONTH												



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09304800 - WHITE RIVER BELOW MEEKER, CO.

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM DIS- SOLVED (UG/L AS AL) (01106)	NITRO- GEN AMMONIA DIS- SOLVED (MG/L AS N) (00608)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM DIS- SOLVED (UG/L AS BA) (01005)	BICAR- BONATE (MG/L AS HCO3) (00440)	OXYGEN DEMAND BIO- CHEM- ICAL 5 DAY (MG/L) (00310)	BORON DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE (MG/L AS CO3) (00445)
JUN , 1979												
06...	82	30	--	0	0	100	--	40	--	1	33	0
07...	94	--	--	--	--	114	--	--	--	--	35	0
16...	92	--	--	--	--	112	--	--	--	--	33	0
22...	96	--	--	--	--	117	--	--	--	--	37	0
29...	98	--	--	--	--	120	--	--	--	--	37	0
JUL												
13...	139	--	--	--	--	165	--	--	--	--	59	2
19...	158	--	--	--	--	193	--	--	--	--	63	0
AUG												
02...	164	--	--	--	--	200	--	--	--	--	71	0
10...	171	--	--	--	--	188	--	--	--	--	74	10
17...	171	--	--	--	--	209	--	--	--	--	75	0
24...	160	--	--	--	--	190	--	40	--	--	68	0
24...	154	--	--	--	--	166	--	--	--	--	73	11
30...	154	--	--	--	--	188	--	--	--	--	71	0
SEP												
10...	160	--	--	--	--	--	--	50	--	--	74	--
13...	167	--	--	--	--	187	--	--	--	--	75	8
19...	170	50	--	1	40	--	--	50	--	--	78	--
21...	174	--	--	--	--	190	--	--	--	--	79	11
NOV												
06...	130	--	--	--	--	--	--	30	--	--	67	--
30...	160	--	--	--	--	--	--	40	--	--	87	--
MAR , 1980												
18...	120	--	--	--	--	--	--	30	--	--	75	--
APR												
17...	130	--	--	--	--	--	--	250	--	--	74	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979											
06...	--	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
JUL											
13...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	--	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
SEP											
10...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
NOV											
06...	--	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1980											
18...	--	--	--	--	--	--	--	--	--	--	--
APR											
17...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09304800 - WHITE RIVER BELOW MEEKER, CO.

WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979										
06...	--	--	--	--	--	--	--	--	--	--
07...	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--
JUL										
13...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
AUG										
02...	--	--	--	--	--	--	--	--	--	--
10...	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
SEP										
10...	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--
NOV										
06...	--	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--
MAR , 1980										
18...	--	--	--	--	--	--	--	--	--	--
APR										
17...	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09304800 - WHITE RIVER BELOW MEEKER, CO.

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L) AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)	MERCURY DIS- SOLVED (UG/L) AS HG) (71890)	METHY- LENE FLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L) AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L) AS C) (00691)
------	--	--	--	--	---	---	---	---	---	---	--

JUN , 1979

06...	3	7.8	10	.9	--	0	--	--	--	--	--
07...	--	8.6	--	--	--	--	--	--	--	--	--
16...	--	7.9	--	--	--	--	--	--	--	--	--
22...	--	9.5	--	--	--	--	--	--	--	--	--
29...	--	9.2	--	--	--	--	--	--	--	--	--
JUL	--	15	--	--	--	--	--	--	--	--	--
13...	--	18	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
AUG	--	19	--	--	--	--	--	--	--	--	--
02...	--	20	--	--	--	--	--	--	--	--	--
10...	--	21	--	--	--	--	--	--	--	--	--
17...	--	19	--	--	--	--	--	--	--	--	--
24...	--	19	--	--	--	--	--	--	--	--	--
30...	--	18	--	--	--	--	--	--	--	--	--
SEP	--	22	--	--	--	--	--	--	--	--	--
10...	--	21	--	--	--	--	--	--	--	--	--
13...	20	24	10	.0	--	<10	--	--	--	--	--
19...	--	23	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
NOV	--	17	--	--	--	--	--	--	--	--	--
06...	--	21	--	--	--	--	--	--	--	--	--
30...	--	--	--	--	--	--	--	--	--	--	--
MAR , 1980	--	21	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	--
APR	--	25	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-MF (CULS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	CYANIDE OIS- SOLVED (MG/L) AS CN (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	IRON, OIS- SOLVED (UG/L) AS FE (01046)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)
JUN , 1979											
06...	--	5.2	0	--	1000	1	--	--	.1	70	0
07...	--	6.0	--	--	--	--	--	--	--	--	--
16...	--	4.6	--	--	--	--	--	--	--	--	--
22...	--	6.7	--	--	--	--	--	--	--	--	--
29...	--	7.4	--	--	--	--	--	--	--	--	--
JUL											
13...	--	17	--	--	--	--	--	--	--	--	--
19...	--	20	--	--	--	--	--	--	--	--	--
AUG											
02...	--	31	--	--	--	--	--	--	--	--	--
10...	--	34	--	--	--	--	--	--	--	--	--
17...	--	27	--	--	--	--	--	--	--	--	--
24...	--	28	--	--	--	--	--	--	.3	30	--
24...	--	26	--	--	--	--	--	--	--	--	--
30...	--	29	--	--	--	--	--	--	--	--	--
SEP											
10...	--	36	--	--	560	--	--	--	.2	30	--
13...	--	38	--	--	--	--	--	--	--	--	--
19...	--	39	10	--	140	1	--	--	.3	20	0
21...	--	44	--	--	--	--	--	--	--	--	--
NOV											
06...	--	30	--	--	K22	--	--	--	.2	20	--
30...	--	45	--	--	K500	--	--	--	.2	100	--
MAR , 1980											
18...	--	36	--	--	--	--	--	--	.2	270	--
APR											
17...	--	28	--	--	--	--	--	--	.2	<10	--



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09304800 - WHITE RIVER BELOW MEEKER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GRUSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979											
06...	1.2	0	9.7	6.8	145	260	31	--	10	--	--
07...	1.0	--	--	7.4	--	--	33	--	--	--	--
16...	1.0	--	--	6.2	--	--	31	--	--	--	--
22...	1.0	--	--	9.0	--	--	41	--	--	--	--
29...	1.0	--	--	8.7	--	--	41	--	--	--	--
JUL											
13...	2.0	--	--	19	--	--	80	--	--	--	--
19...	2.0	--	--	24	--	--	98	--	--	--	--
AUG											
02...	2.0	--	--	29	--	--	116	--	--	--	--
10...	5.0	--	--	34	--	--	123	--	--	--	--
17...	3.0	--	--	30	--	--	139	--	--	--	--
24...	1.5	--	17	33	497	--	140	--	--	--	--
24...	2.0	--	--	30	--	--	138	--	--	--	--
30...	2.0	--	--	31	--	--	132	--	--	--	--
SEP											
10...	1.6	--	16	40	466	--	180	--	--	--	--
13...	2.0	--	--	39	--	--	141	--	--	--	--
19...	2.4	1	15	46	488	860	180	--	<3	--	--
21...	2.0	--	--	44	--	--	149	--	--	--	--
NOV											
06...	1.4	--	13	29	366	--	130	--	--	--	--
30...	2.3	--	17	38	467	--	160	--	--	--	--
MAR , 1980											
18...	1.5	--	16	42	424	--	160	--	--	--	--
APR											
17...	2.3	--	14	38	460	--	200	--	--	--	--

PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39493409306007  
LONGITUDEPICEANCE CREEK BELOW RIO BLANCO, CO.  
DRAINAGE AREA 1061057STREAM  
DATUM 6366.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

PH (STANDARD UNITS). WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	
1	8.4	8.2	8.3	8.3	8.2	8.2	8.4	8.3	8.3	8.4	8.3	8.3	---	---	---	
2	8.4	8.2	8.3	8.3	8.2	8.2	---	---	---	---	---	---	---	---	---	
3	8.3	8.2	8.2	8.3	8.1	8.2	8.4	8.4	8.4	8.4	8.4	8.4	---	---	---	
4	8.4	8.2	8.3	8.3	8.1	8.2	8.4	8.4	8.2	8.4	8.4	8.4	8.2	8.2	8.2	
5	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.4	8.2	8.4	8.4	8.4	8.2	8.2	8.2	
6	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.4	8.2	8.4	8.4	8.4	8.2	8.2	8.2	
7	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.4	8.2	8.4	8.4	8.4	8.2	8.2	8.2	
8	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.4	8.2	8.4	8.4	8.4	8.2	8.2	8.2	
9	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.4	8.2	8.4	8.4	8.4	8.2	8.2	8.2	
10	8.3	8.1	8.2	8.3	8.1	8.2	8.4	8.4	8.2	8.4	8.1	8.3	8.2	1.0	4.0	
11	8.4	8.1	8.2	8.3	8.1	8.2	8.4	8.3	8.2	8.4	8.2	8.3	8.2	1.0	1.6	
12	8.4	8.1	8.2	8.3	8.2	8.2	8.2	8.3	8.2	8.2	8.1	8.1	8.2	1.0	1.9	
13	8.3	8.1	8.2	8.3	8.2	8.2	---	---	---	---	---	---	1.1	1.0	1.1	
14	8.3	8.1	8.2	8.3	8.2	8.2	---	---	8.3	---	---	---	1.1	1.1	1.1	
15	8.3	8.1	8.2	8.3	8.1	8.2	---	---	8.3	---	---	---	8.2	1.1	1.4	
16	8.3	8.1	8.2	8.3	8.4	8.4	---	---	8.4	---	---	---	1.1	1.1	1.1	
17	8.3	8.1	8.2	8.3	8.3	8.4	---	---	8.4	---	---	---	8.2	1.1	1.7	
18	8.3	8.1	8.2	8.3	8.3	8.4	---	---	8.4	---	---	---	1.1	1.1	1.1	
19	8.3	8.1	8.2	8.3	8.4	8.4	---	---	8.4	---	---	---	---	---	---	
20	8.3	8.1	8.2	8.3	8.4	8.4	---	---	8.4	---	---	---	---	---	---	
21	8.4	8.1	8.2	8.3	8.4	8.4	---	---	8.4	---	---	---	---	---	---	
22	8.4	8.1	8.2	8.4	8.4	8.4	---	---	8.4	---	---	---	---	---	---	
23	8.4	8.1	8.2	8.4	8.4	8.4	---	---	8.4	---	---	---	8.5	1.3	8.0	
24	8.4	8.1	8.2	8.4	8.4	8.4	---	---	8.4	---	---	---	8.5	1.3	8.2	
25	8.3	8.1	8.2	8.4	8.4	8.4	---	---	8.4	---	---	---	8.5	8.5	8.5	
26	8.4	8.1	8.2	8.4	8.3	8.4	---	---	8.4	---	---	---	8.5	.6	8.2	
27	8.3	8.1	8.2	8.3	8.4	8.4	---	---	8.4	---	---	---	8.5	8.4	8.5	
28	8.4	8.1	8.2	8.4	8.3	8.4	---	---	8.4	---	---	---	8.5	8.4	8.5	
29	8.3	8.1	8.2	8.3	8.2	8.2	---	---	8.2	---	---	---	8.5	8.4	8.5	
30	8.3	8.2	8.2	8.3	8.3	8.3	---	---	8.3	---	---	---	8.5	.6	7.8	
31	8.3	8.2	8.2	8.3	---	---	---	---	---	---	---	---	8.4	8.4	8.4	
MONTH	8.4	8.1	8.2	8.3	8.1	8.3	8.4	8.1	8.3	8.4	8.1	8.4	8.5	.6	5.8	



## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39493409306007 PICEANCE CREEK BELOW RIO BLANCO, CO.  
LONGITUDE 1081057 DRAINAGE AREA 177.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN
1	9.7	7.0	8.3	10.9	9.0	10.0	9.5	8.9	9.5	8.9	9.3	---	---	---	---	---
2	9.8	7.1	8.4	10.7	8.9	9.8	---	---	---	---	---	---	---	---	---	---
3	9.7	7.2	8.3	10.5	8.8	9.7	9.8	8.7	9.8	8.7	9.2	---	---	---	---	---
4	9.9	7.3	8.6	10.2	8.6	9.4	9.6	8.8	9.6	8.8	9.1	10.0	9.2	10.0	9.2	9.7
5	10.1	7.3	8.6	10.4	8.6	9.4	10.0	8.8	10.0	8.8	9.5	10.4	9.4	10.4	9.4	9.9
6	10.1	7.1	8.6	10.4	8.5	9.5	9.9	8.7	9.9	8.7	9.4	10.2	9.6	10.2	9.6	9.9
7	10.0	7.0	8.4	10.0	8.5	9.2	9.6	8.6	9.6	8.6	9.1	10.3	9.4	10.3	9.4	9.9
8	10.1	7.0	8.4	10.0	8.6	9.2	10.0	8.8	10.0	8.8	9.3	10.5	9.6	10.5	9.6	10.1
9	10.1	7.3	8.5	10.3	8.6	9.3	9.5	8.2	9.5	8.2	8.9	10.7	9.8	10.7	9.8	10.2
10	10.1	7.3	8.6	10.5	8.7	9.5	9.3	1.2	9.3	1.2	4.5	10.1	8.0	10.1	8.0	9.3
11	9.9	7.2	8.6	10.5	9.0	9.6	9.7	1.7	9.7	1.7	6.1	11.5	8.5	11.5	8.5	9.3
12	10.1	7.2	8.6	10.8	9.1	9.9	2.0	1.4	2.0	1.4	1.5	10.3	8.2	10.3	8.2	8.8
13	9.8	7.2	8.4	10.8	9.0	9.8	---	---	---	---	---	8.8	7.8	8.8	7.8	8.5
14	9.9	7.7	8.6	10.8	2.3	7.3	---	---	---	---	---	9.1	8.1	9.1	8.1	8.5
15	9.7	7.1	8.3	10.0	1.8	4.9	---	---	---	---	---	9.4	8.3	9.4	8.3	8.6
16	9.5	7.2	8.1	11.2	9.3	10.2	---	---	---	---	---	8.8	8.1	8.8	8.1	8.5
17	10.2	7.7	8.6	11.1	9.1	10.0	---	---	---	---	---	9.9	8.1	9.9	8.1	8.6
18	9.6	7.5	8.4	10.1	9.0	9.4	---	---	---	---	---	8.5	7.9	8.5	7.9	8.2
19	9.6	7.4	8.3	10.5	9.6	10.0	---	---	---	---	---	---	---	---	---	---
20	9.3	7.8	8.7	10.7	9.3	10.0	---	---	---	---	---	---	---	---	---	---
21	10.1	8.6	9.2	11.0	9.7	10.3	---	---	---	---	---	---	---	---	---	---
22	10.4	8.4	9.4	10.8	8.9	10.3	---	---	---	---	---	---	---	---	---	---
23	10.2	8.1	9.1	10.7	9.5	10.1	---	---	---	---	---	11.4	10.0	11.4	10.0	11.1
24	10.2	8.2	9.2	10.5	9.3	9.8	---	---	---	---	---	11.8	9.7	11.8	9.7	10.8
25	10.1	8.0	9.0	10.1	9.3	9.6	---	---	---	---	---	10.8	9.6	10.8	9.6	10.4
26	9.9	8.0	8.9	10.0	9.3	9.6	---	---	---	---	---	11.1	9.2	11.1	9.2	10.6
27	10.3	8.3	9.2	10.7	9.8	10.2	---	---	---	---	---	11.2	9.9	11.2	9.9	10.6
28	10.5	8.4	9.4	10.7	9.5	10.1	---	---	---	---	---	10.9	10.5	10.9	10.5	10.8
29	10.3	8.8	9.4	9.7	9.4	9.5	---	---	---	---	---	10.8	9.5	10.8	9.5	10.2
30	10.3	9.0	9.7	9.6	9.3	9.5	---	---	---	---	---	11.1	9.3	11.1	9.3	10.6
31	10.8	9.1	9.9	---	---	---	---	---	---	---	---	11.0	10.6	11.0	10.6	10.9
MONTH	10.8	7.0	8.8	11.2	1.8	9.5	10.0	1.2	10.0	1.2	7.8	11.8	7.8	11.8	7.8	9.8

PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39493409306007  
LONGITUDEPICEANCE CREEK BELOW RIO BLANCO, CO.  
DRAINAGE AREA 1081057STREAM  
6366.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	11.1	9.9	10.6	10.7	8.7	9.8	10.4	---	---	---	---	---	---	---
2	10.9	9.8	10.3	11.1	9.6	10.4	---	---	---	---	---	---	---	---
3	10.6	9.5	10.0	10.4	9.2	9.9	11.2	8.8	11.2	9.5	8.8	11.2	9.5	---
4	10.5	9.4	10.0	10.4	9.1	9.8	10.9	7.4	10.9	9.1	7.4	10.9	9.1	---
5	11.1	9.8	10.6	10.7	9.1	9.9	10.9	7.5	10.9	9.1	7.5	10.9	9.1	---
6	10.8	9.6	10.2	---	---	---	---	8.6	10.2	9.4	8.6	10.2	9.4	---
7	10.6	9.6	10.1	---	---	---	---	8.2	10.5	9.3	8.2	10.5	9.3	---
8	11.1	10.4	10.8	---	---	---	---	9.6	10.8	10.1	9.6	10.8	10.1	---
9	10.9	10.5	10.8	---	---	---	---	7.7	8.6	8.1	7.7	8.6	8.1	---
10	10.8	8.5	10.6	---	---	---	---	8.2	10.0	9.0	8.2	10.0	9.0	---
11	10.8	10.2	10.5	---	---	---	---	8.3	10.4	9.3	8.3	10.4	9.3	---
12	10.8	---	---	---	---	---	---	8.1	10.6	9.4	8.1	10.6	9.4	---
13	10.6	10.3	10.5	---	---	---	---	7.6	10.6	9.2	7.6	10.6	9.2	---
14	---	---	---	---	---	---	---	9.0	10.3	9.7	9.0	10.3	9.7	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	9.8	9.4	9.6	---	---	---	---	---	---	---	---	---	---	---
21	10.3	9.3	9.8	---	---	---	---	---	---	---	---	---	---	---
22	10.4	9.5	9.9	---	---	---	---	---	---	---	---	---	---	---
23	10.7	9.8	10.3	---	---	---	---	---	---	---	---	---	---	---
24	11.4	9.4	10.4	---	---	---	---	---	---	---	---	---	---	---
25	11.4	9.5	10.6	---	---	---	---	---	---	---	---	---	---	---
26	11.4	9.1	10.4	---	---	---	---	---	---	---	---	---	---	---
27	11.2	8.9	10.2	---	---	---	---	---	---	---	---	---	---	---
28	11.1	8.9	10.0	---	---	---	---	---	---	---	---	---	---	---
29	10.3	9.6	9.9	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	11.4	8.5	10.3	11.1	8.7	10.0	11.2	7.4	11.2	9.3	7.4	11.2	9.3	---



## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39493409306007  
LONGITUDEPICEANCE CREEK BELOW RIO BLANCO, CO.  
DRAINAGE AREASTREAM  
DATUM 6366.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1130	1090	1110	1090	1080	1080	1070	1030	1050	---	---	---
2	1130	1090	1120	1080	1070	1080	---	---	---	---	---	---
3	1130	1100	1120	1080	1070	1080	1080	1080	1080	---	---	---
4	1140	1120	1130	1080	1060	1080	1090	1070	1080	1090	1080	1090
5	1150	1120	1140	1080	1050	1070	1080	1070	1070	1100	1080	1090
6	1150	1110	1140	1090	1060	1070	1070	1060	1070	1100	1090	1090
7	1170	1120	1150	1070	1040	1060	1080	1060	1070	1100	1060	1090
8	1200	1160	1180	1070	1050	1070	1080	1060	1070	1100	1060	1090
9	1210	1160	1190	1070	1060	1070	1070	1050	1060	1080	1050	1070
10	1200	1140	1180	1080	1060	1070	1110	1040	1060	1070	12	340
11	1180	1120	1150	1070	1060	1070	1200	1090	1150	1150	12	62
12	1160	1100	1140	1070	1050	1070	1100	1030	1080	856	14	67
13	1160	1100	1140	1070	1070	1070	---	---	---	16	12	14
14	1160	1110	1140	1090	1060	1070	---	---	---	16	12	14
15	1180	1120	1150	1090	1060	1080	---	---	---	1050	14	57
16	1170	1120	1150	1080	1070	1080	---	---	---	16	4	12
17	1170	1130	1160	1090	1070	1080	---	---	---	1070	4	51
18	1180	1130	1160	1080	1050	1070	---	---	---	16	4	12
19	1190	1140	1170	1070	1030	1050	---	---	---	---	---	---
20	1200	1150	1170	1060	1030	1050	---	---	---	---	---	---
21	1210	1170	1190	1070	1060	1070	---	---	---	---	---	---
22	1200	1150	1170	1120	1040	1080	---	---	---	---	---	---
23	1170	1110	1140	1120	1040	1090	---	---	---	---	---	---
24	1120	1100	1110	1090	1080	1080	---	---	---	1150	14	1010
25	1120	1100	1110	1070	1070	1070	---	---	---	1120	12	998
26	1110	1080	1100	1080	1040	1060	---	---	---	1090	1070	1080
27	1110	1100	1110	1090	1050	1070	---	---	---	1090	14	1010
28	1120	1090	1110	1170	1090	1120	---	---	---	1120	1020	1080
29	1120	1050	1090	1140	1060	1110	---	---	---	1070	1030	1040
30	1090	1080	1090	1110	1030	1070	---	---	---	1070	1040	1050
31	1090	1080	1090	---	---	---	---	---	---	1100	12	537
							---	---	---	1210	1030	1120
MONTH	1210	1050	1140	1170	1030	1070	1200	1030	1080	1210	4	669

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39493409306007 PICEANCE CREEK BELOW RIO BLANCO, CO.  
LONGITUDE 1081057 DRAINAGE AREA 177.00STREAM  
6366.00 DATUM 6366.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY						MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1120	1020	1060	1070	1040	1060	---	---	---	---	---	---	---	---	---
2	1070	1060	1070	1090	1060	1070	---	---	---	---	---	---	---	---	---
3	1080	1060	1070	1080	1010	1050	1130	1100	1110	1130	996	1080	1130	1100	1110
4	1070	1050	1070	1060	1020	1040	1130	996	1080	1130	996	1080	1130	1100	1080
5	1120	14	1030	1070	1030	1060	---	---	---	---	---	---	---	---	---
6	1080	1050	1070	---	---	---	1130	1040	1100	1130	1040	1100	---	---	---
7	1070	1000	1060	---	---	---	1120	1020	1050	1120	1020	1050	---	---	---
8	1140	14	1040	---	---	---	1130	8	941	1130	8	941	---	---	---
9	1210	1010	1120	---	---	---	1010	976	993	1010	976	993	---	---	---
10	1150	648	551	---	---	---	1040	958	1010	1040	958	1010	---	---	---
11	1160	698	1050	---	---	---	1030	952	1010	1030	952	1010	---	---	---
12	1150	---	---	---	---	---	1030	936	996	1030	936	996	---	---	---
13	1080	16	959	---	---	---	1030	700	952	1030	700	952	---	---	---
14	---	---	---	---	---	---	912	632	789	912	632	789	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
20	1020	984	1000	---	---	---	---	---	---	---	---	---	---	---	---
21	1050	1020	1040	---	---	---	---	---	---	---	---	---	---	---	---
22	1060	1050	1060	---	---	---	---	---	---	---	---	---	---	---	---
23	1060	1030	1050	---	---	---	---	---	---	---	---	---	---	---	---
24	1080	18	1030	---	---	---	---	---	---	---	---	---	---	---	---
25	1140	1040	1080	---	---	---	---	---	---	---	---	---	---	---	---
26	1090	1050	1070	---	---	---	---	---	---	---	---	---	---	---	---
27	1090	932	1040	---	---	---	---	---	---	---	---	---	---	---	---
28	1070	902	1010	---	---	---	---	---	---	---	---	---	---	---	---
29	1060	988	1040	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	1210	14	1030	1090	1010	1060	1130	8	1010	---	---	---	---	---	1010

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39493409306007 PICEANCE CREEK BELOW RIO BLANCO, CO.  
LONGITUDE 1081057 DRAINAGE AREA 177.00 DATUM 6366.00STREAM  
SOURCE AGENCY USGS  
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	16.5	6.5	11.0	6.5	.0	3.0	.5	.0	.5	---	---	---
2	15.5	7.0	10.5	7.5	1.5	4.0	---	---	---	---	---	---
3	15.0	6.5	10.5	7.5	1.5	4.0	5.0	1.0	3.0	---	---	---
4	15.0	5.0	9.5	8.0	3.5	5.5	5.0	2.0	3.5	5.0	2.0	3.0
5	15.0	5.5	10.0	8.5	2.5	5.0	5.0	.0	2.0	4.0	.5	2.0
6	15.5	5.5	10.0	8.5	2.0	5.5	5.5	.5	3.0	3.0	.0	1.5
7	16.0	6.0	10.5	7.5	5.0	6.0	6.0	3.0	4.0	3.0	.0	1.0
8	15.0	6.0	10.0	7.5	4.5	5.5	5.0	1.0	3.0	4.5	.0	2.5
9	14.0	6.0	9.5	7.5	4.0	5.5	5.0	1.0	3.0	4.5	2.0	3.5
10	14.5	5.5	9.5	7.0	2.0	4.5	19.0	1.5	8.5	13.0	3.0	7.5
11	14.5	5.5	9.5	6.0	3.0	4.5	14.0	.0	5.5	13.0	.0	10.0
12	14.0	5.5	9.5	6.5	.5	3.5	15.5	12.0	13.0	14.0	2.5	11.5
13	14.0	6.0	10.0	6.5	.5	3.5	---	---	---	18.5	13.5	15.0
14	11.0	6.5	9.0	13.0	.5	5.5	---	---	---	15.0	9.5	13.5
15	13.5	6.0	10.0	17.0	2.5	11.5	---	---	---	15.5	7.5	13.5
16	13.5	7.5	10.0	6.0	.0	3.0	---	---	---	16.0	12.5	14.0
17	12.0	5.0	8.5	6.0	.0	3.5	---	---	---	16.0	6.0	13.0
18	13.0	8.0	10.0	7.0	3.5	5.0	---	---	---	14.5	12.0	13.0
19	13.0	8.5	10.5	3.5	1.5	2.5	---	---	---	---	---	---
20	10.0	4.5	7.5	5.0	1.5	3.0	---	---	---	---	---	---
21	9.0	5.0	6.5	3.5	.5	2.0	---	---	---	---	---	---
22	10.5	3.0	6.0	3.0	.0	.5	---	---	---	---	---	---
23	11.5	4.0	7.5	3.0	.0	1.0	---	---	---	8.0	.0	1.0
24	11.0	4.5	7.5	4.5	1.0	2.5	---	---	---	8.0	.0	2.0
25	12.0	4.5	8.0	4.5	2.5	3.5	---	---	---	5.5	1.0	2.5
26	12.0	6.0	8.5	4.0	2.0	3.0	---	---	---	6.0	.0	1.5
27	11.0	4.5	7.5	2.5	.0	.5	---	---	---	3.5	.0	1.0
28	9.5	3.5	6.0	.0	.0	.0	---	---	---	1.0	.0	.0
29	6.5	4.5	5.5	.5	.0	.0	---	---	---	6.0	.0	2.5
30	7.0	3.0	4.5	.5	.0	.0	---	---	---	6.5	.0	1.5
31	6.5	.5	3.5	---	---	---	---	---	---	.0	.0	.0
MONTH	16.5	.5	8.5	17.0	.0	3.5	19.0	.0	4.5	18.5	.0	5.5

STATION NUMBER  
LATITUDE 39493409306007 PICEANCE CREEK BELOW RIO BLANCO, CO.  
LONGITUDE 1081057 DRAINAGE AREA 177.00SITHEAM  
DATUM 6366.00 STATE 08  
COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MAX	MIN	MEAN	MARCH			MAX	MIN	MEAN	APRIL			MAX	MIN	MEAN	MAY																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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1	3.5	.0	1.0	11.0	3.0	6.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---</

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306007 - PICEANCE CHEEK BELOW RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L) AS AL- (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N- (00608)	ARSENIC DIS- SOLVED (UG/L) AS AS- (01000)	BARIUM, DIS- SOLVED (UG/L) AS BA- (01005)	BICAR- BONATE (MG/L) AS HCO3- (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L) AS B- (01020)	BROMIDE DIS- SOLVED (MG/L) AS BR- (71870)	CADMIUM DIS- SOLVED (UG/L) AS CD- (01025)	CALCIUM DIS- SOLVED (MG/L) AS CA- (00915)	CAR- BONATE (MG/L) AS CO3- (00445)
JUN , 1979												
19....	430	--	.03	7	--	520	--	220	--	--	72	0
JUL												
12....	520	--	--	--	--	634	--	--	--	--	--	0
17....	520	0	.00	2	100	630	--	260	.1	<1	79	0
AUG												
22....	300	--	.00	2	--	360	--	190	--	--	68	0
SEP												
04....	--	--	--	--	--	500	--	--	--	--	--	--
20....	380	0	.00	2	100	--	--	200	.1	<1	68	--
27....	440	--	--	--	--	512	--	--	--	--	--	12
OCT												
24....	420	--	.00	3	--	--	--	210	--	--	68	--
NOV												
14....	390	--	.02	2	--	--	--	80	--	--	83	--
DEC												
13....	450	30	.06	2	100	--	--	190	.1	<1	80	--
JAN , 1980												
23....	390	--	.05	3	--	--	--	210	--	--	65	--
FEB												
20....	370	--	.00	3	--	--	--	180	--	--	65	--
MAR												
25....	380	--	.04	3	--	--	--	190	--	--	63	--
APR												
24....	270	--	.00	3	--	--	--	130	--	--	55	--



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
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WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIT- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLDR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979											
19...	--	.00	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	--	.03	--	--	--	--	--	--	--	--	--
AUG											
22...	--	.03	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
20...	--	.12	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV											
14...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--
APH											
24...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306007 - PICEANCE CHEEK BELOW RIO BLANCO, CO.

WATER QUALITY DATA

DATE	HEPTA- CHLOR TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	OI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979											
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	1
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
20...	--	--	--	--	--	--	--	--	--	--	0
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	1
NOV											
14...	--	--	--	--	--	--	--	--	--	--	0
OEC											
13...	--	--	--	--	--	--	--	--	--	--	0
JAN , 1980											
23...	--	--	--	--	--	--	--	--	--	--	1
FEB											
20...	--	--	--	--	--	--	--	--	--	--	3
MAR											
25...	--	--	--	--	--	--	--	--	--	--	0
APR											
24...	--	--	--	--	--	--	--	--	--	--	1

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 07/01/80  
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WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L) AS LI (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN (01056)	MERCURY DIS- SOLVED (UG/L) AS HG (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS NO3 (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS NO2 (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L) AS C (00682)	CARBON, INOH- GANIC, DIS- SOLVED (MG/L) AS C (00691)
JUN , 1979											
19...	--	47	70	--	.00	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	10	54	80	.0	.00	16	--	--	--	--	--
AUG											
22...	--	42	40	--	.00	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
20...	10	44	30	.0	.00	<10	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	46	70	--	--	--	--	--	--	--	--
NOV											
14...	--	68	1	--	--	--	--	--	--	--	--
DEC											
13...	10	50	50	.0	--	<10	--	--	--	--	--
JAN , 1980											
23...	--	48	60	--	--	--	--	--	--	--	--
FEH											
20...	--	40	60	--	--	--	--	--	--	--	--
MAR											
25...	--	40	60	--	--	--	--	--	--	--	--
APH											
24...	--	30	8	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09J06007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-HF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN (00723)	STREP- TOCOCCL FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)
JUN , 1979											
19...	--	11	--	--	--	--	--	--	.7	30	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	48	16	0	--	420	2	--	1280	.8	20	0
AUG											
22...	--	13	--	--	--	--	--	--	.7	20	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
20...	15	15	20	--	K100	1	--	120	.9	20	0
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	16	--	--	--	--	--	--	.9	290	--
NOV											
14...	--	6.3	--	--	--	--	--	--	.2	10	--
DEC											
13...	24	12	0	--	K2400	0	--	K40	1.0	10	0
JAN , 1980											
23...	--	13	--	--	--	--	--	--	1.1	10	--
FEB											
20...	--	11	--	--	--	--	--	--	.9	50	--
MAR											
25...	--	11	--	--	--	--	--	--	.3	10	--
APR											
24...	--	10	--	--	--	--	--	--	.6	<10	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306007 - PICEANCE CREEK BELOW RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979											
19...	2.6	--	14	120	706	--	180	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	4.5	1	17	140	804	1700	180	--	<3	12	<4.9
AUG											
22...	2.5	--	17	100	604	--	180	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
20...	3.0	1	16	110	689	1500	200	--	<3	<3	<3.9
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	3.2	--	17	120	706	--	180	--	--	--	--
NOV											
14...	1.6	--	15	120	873	--	340	--	--	--	--
DEC											
13...	2.6	1	18	130	750	1600	180	--	<3	<1.0	<8.0
JAN , 1980											
23...	2.7	--	17	110	674	--	180	--	--	--	--
FEB											
20...	4.2	--	14	110	610	--	140	--	--	--	--
MAR											
25...	2.5	--	13	110	630	--	160	--	--	--	--
APR											
24...	3.0	--	14	81	491	--	130	--	--	--	--



PROCESS DATE IS 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 394848

09306022 STEWART GULCH AB WEST FORK, NEAR RIO BLANCO, CO.  
LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00

SOURCE AGENCY USGS  
STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN	MEAN	MAX	MIN	MEAN	MEAN	MAX	MIN	MEAN	MEAN	MAX	MIN	MEAN	MEAN
1	8.4	8.2	8.3	---	---	---	---	8.5	8.7	8.3	8.5	---	---	---	---	---
2	8.4	8.2	8.3	---	---	---	---	8.5	8.6	8.4	8.5	---	---	---	---	---
3	8.4	8.2	8.3	---	---	---	---	8.5	8.7	8.4	8.6	---	---	---	---	---
4	8.4	8.2	8.3	---	---	---	---	8.5	8.8	8.5	8.6	---	---	---	---	---
5	8.4	8.2	8.3	---	---	---	---	8.5	8.8	8.5	8.6	---	8.4	8.2	8.3	8.3
6	8.4	8.2	8.3	---	---	---	---	8.5	8.8	8.5	8.6	---	8.4	8.1	8.2	8.2
7	8.5	8.2	8.3	---	---	---	---	8.5	8.7	8.5	8.6	---	8.4	8.1	8.2	8.2
8	8.5	8.2	8.3	---	---	---	---	8.5	8.7	8.5	8.6	---	8.4	8.1	8.2	8.2
9	8.5	8.3	8.4	---	---	---	---	8.5	8.9	8.6	8.7	---	8.3	---	---	---
10	8.5	8.2	8.3	---	---	---	---	8.5	8.8	8.6	8.7	---	8.3	---	---	---
11	8.5	8.2	8.3	---	---	---	---	8.5	8.9	8.6	8.7	---	8.3	8.1	8.2	8.2
12	8.5	8.2	8.3	---	---	---	---	8.5	8.8	8.4	8.6	---	8.3	8.1	8.1	8.1
13	8.5	8.2	8.3	---	---	---	---	8.5	8.8	8.4	8.6	---	8.4	8.1	8.2	8.2
14	8.5	8.2	8.3	---	8.4	8.4	8.4	8.5	8.5	8.2	8.3	---	8.4	8.1	8.2	8.2
15	8.5	8.2	8.3	8.5	8.6	8.4	8.5	8.5	8.6	8.2	8.4	---	8.4	8.2	8.3	8.3
16	8.5	8.2	8.3	8.5	8.7	8.4	8.5	8.5	8.6	8.3	8.4	---	8.4	8.2	8.3	8.3
17	8.4	8.3	8.3	8.5	8.7	8.4	8.5	8.5	8.6	8.4	8.5	---	8.4	8.2	8.3	8.3
18	---	---	---	8.5	8.7	8.4	8.5	---	---	---	---	---	8.5	8.1	8.3	8.3
19	---	---	---	8.5	8.8	8.4	8.5	---	---	---	---	---	8.4	8.1	8.3	8.3
20	---	---	---	8.5	8.7	8.4	8.5	8.5	8.5	8.2	8.3	---	8.6	8.2	8.4	8.4
21	---	---	---	8.4	8.6	8.3	8.4	8.4	8.4	8.1	8.3	---	8.6	8.4	8.5	8.5
22	---	---	---	8.4	8.6	8.3	8.4	8.4	8.4	8.2	8.3	---	8.8	8.4	8.6	8.6
23	---	---	---	8.4	8.6	8.2	8.4	8.4	---	---	---	---	8.9	8.2	8.5	8.5
24	---	---	---	8.4	8.7	8.3	8.4	8.4	---	---	---	---	9.0	8.6	8.8	8.8
25	---	---	---	8.5	8.7	8.4	8.5	8.5	---	---	---	---	9.0	8.8	8.9	8.9
26	---	---	---	8.5	8.7	8.4	8.5	8.5	---	---	---	---	9.2	8.9	9.1	9.1
27	---	---	---	8.5	8.7	8.4	8.5	8.5	---	---	---	---	9.0	8.8	8.9	8.9
28	---	---	---	8.5	8.6	8.4	8.5	8.5	---	---	---	---	9.2	9.0	9.1	9.1
29	---	---	---	8.5	8.7	8.2	8.5	8.5	---	---	---	---	9.1	8.9	9.0	9.0
30	---	---	---	8.4	8.6	8.0	8.4	8.4	---	---	---	---	9.4	8.9	9.1	9.1
31	---	---	---	---	---	---	---	---	---	---	---	---	9.0	8.4	8.8	8.8
MONTH	8.5	8.2	8.3	8.5	8.8	8.0	8.5	8.5	8.9	8.1	8.5	---	9.4	8.1	8.5	8.5

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306022 STEWART GULCH AB WEST FORK, NEAR RIO BLANCO, CO. STREAM  
 LATITUDE 394848 LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00 SOURCE AGENCY USGS  
 STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	9.0	8.6	8.8	8.8	8.0	8.0	7.9	8.0	8.2	8.1	8.0	8.1	7.9	8.0
2	9.0	8.8	8.9	8.9	8.1	8.1	8.0	8.0	8.2	8.1	8.0	8.1	8.0	8.0
3	9.1	8.9	9.0	9.0	8.1	8.1	7.9	8.0	8.3	8.1	8.0	8.1	7.9	8.0
4	9.2	9.0	9.1	9.1	8.1	8.1	8.0	8.0	8.2	7.9	7.3	8.1	8.0	8.0
5	9.3	8.8	9.0	9.0	8.0	8.0	7.8	8.0	8.2	8.1	8.0	8.1	8.0	8.0
6	9.1	9.0	9.0	9.0	8.1	8.1	8.0	8.0	8.2	7.9	7.3	8.1	8.0	8.0
7	9.1	8.9	9.0	9.0	8.1	8.1	8.0	8.0	8.1	8.0	7.7	8.1	7.9	8.0
8	9.0	8.6	8.8	8.8	8.1	8.1	8.0	8.0	8.2	8.0	7.7	8.0	8.0	8.0
9	8.9	8.3	8.6	8.6	8.0	8.0	7.9	8.0	8.2	8.0	7.7	8.0	8.0	8.0
10	8.9	8.4	8.6	8.6	8.0	8.0	7.9	8.0	8.2	8.0	7.7	8.0	8.0	8.0
11	8.9	8.4	8.6	8.6	8.0	8.0	7.9	8.0	8.1	8.0	7.9	8.0	7.4	8.0
12	8.7	8.4	8.5	8.5	8.0	8.0	7.9	8.0	8.2	7.9	7.3	8.1	8.0	8.0
13	8.7	8.5	8.6	8.6	8.0	8.0	7.9	8.0	8.1	7.9	7.3	8.0	8.0	8.0
14	8.7	8.5	8.6	8.6	8.0	8.0	7.9	8.0	8.2	8.0	7.7	8.0	8.0	8.0
15	8.7	8.6	8.6	8.6	8.0	8.0	7.9	8.0	8.3	8.1	8.0	8.1	8.0	8.0
16	8.8	8.6	8.7	8.7	8.0	8.0	7.9	8.0	8.2	8.1	8.0	8.1	8.0	8.0
17	8.8	8.7	8.7	8.7	8.2	8.2	7.9	8.0	8.2	8.1	8.0	8.1	8.0	8.0
18	9.0	8.6	8.7	8.7	8.2	8.2	8.1	8.0	8.2	8.1	8.0	8.1	8.0	8.0
19	8.7	8.1	8.4	8.4	8.3	8.3	8.0	8.0	8.2	8.1	8.0	8.1	8.0	8.0
20	8.3	8.1	8.1	8.1	8.1	8.1	8.0	8.0	8.2	8.1	8.0	8.1	8.0	8.0
21	8.2	8.0	8.1	8.1	8.1	8.1	7.9	8.0	8.2	8.1	8.0	8.1	8.0	8.0
22	8.2	8.0	8.1	8.1	8.1	8.1	7.9	8.0	8.2	8.1	8.0	8.1	8.0	8.0
23	8.2	8.0	8.1	8.1	8.1	8.1	7.9	8.0	8.1	8.1	8.0	8.1	8.0	8.0
24	8.2	8.1	8.1	8.1	8.0	8.0	7.9	8.0	8.2	8.1	8.0	8.1	8.0	8.0
25	8.2	8.0	8.1	8.1	8.1	8.1	7.9	8.0	8.2	8.0	8.0	8.0	8.0	8.0
26	8.1	8.0	8.1	8.1	8.1	8.1	8.0	8.0	8.1	8.0	8.0	8.0	8.0	8.0
27	8.1	7.9	8.0	8.0	8.1	8.1	7.9	8.0	8.1	8.1	8.0	8.1	8.0	8.0
28	8.1	7.9	8.0	8.0	8.1	8.1	7.9	8.0	8.1	8.0	8.0	8.0	8.0	8.0
29	8.1	7.9	8.0	8.0	8.1	8.1	7.9	8.0	8.2	8.1	7.9	8.0	8.0	8.0
30	---	---	---	---	8.1	8.1	8.0	8.0	8.1	8.0	7.9	8.0	8.0	8.0
31	---	---	---	---	8.2	8.2	8.0	8.0	---	---	---	---	---	---
MONTH	9.3	7.9	8.5	8.5	8.3	8.3	7.8	8.0	8.3	8.0	7.3	8.0	7.4	8.0

PROCESS DATE IS 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 394848

09306022  
LONGITUDE 1081100

STEWART GULCH AB WEST FORK, NEAR RIO BLANCO, CO.  
DRAINAGE AREA 44.00

STREAM 6430.00  
STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	10.1	6.8	8.2	---	---	---	12.4	8.9	10.0	---	---	---
2	10.0	6.7	8.2	---	---	---	12.4	8.5	9.8	---	---	---
3	10.1	7.1	8.3	---	---	---	12.6	8.5	9.8	---	---	---
4	10.1	6.3	8.1	---	---	---	12.7	8.4	9.9	---	---	---
5	9.0	5.8	7.2	---	---	---	12.5	8.4	9.7	12.4	8.5	10.2
6	8.5	5.4	6.8	---	---	---	12.7	8.5	9.8	12.3	8.7	9.7
7	8.2	5.1	6.4	---	---	---	12.3	8.2	9.7	12.4	8.7	9.7
8	7.6	4.9	6.0	---	---	---	12.2	8.4	9.5	12.5	8.4	9.6
9	7.6	4.8	5.9	---	---	---	12.1	8.5	9.7	11.7	---	---
10	7.4	4.6	5.8	---	---	---	12.3	8.2	9.6	11.8	8.2	9.4
11	7.2	4.4	5.6	---	---	---	12.5	8.7	9.9	11.2	8.5	9.5
12	7.0	4.3	5.4	---	---	---	12.0	9.0	10.0	10.0	8.3	8.9
13	6.9	4.2	5.3	---	---	---	12.0	9.1	10.0	11.6	8.0	9.2
14	6.7	4.2	5.2	11.9	8.4	9.1	11.8	8.9	9.9	11.7	8.1	8.9
15	11.0	4.4	6.9	13.7	6.5	10.2	11.9	8.8	9.8	11.6	8.2	9.3
16	10.0	6.1	7.5	13.8	8.3	10.1	12.3	8.7	9.9	11.7	8.4	9.3
17	8.0	6.5	6.8	14.3	8.0	10.1	12.6	8.7	10.0	11.6	8.3	9.3
18	---	---	---	15.1	8.0	9.4	---	---	---	11.7	8.2	9.2
19	---	---	---	13.3	8.4	9.7	---	---	---	11.4	8.6	9.5
20	---	---	---	14.0	8.2	10.1	11.4	8.5	9.6	11.1	8.8	9.5
21	---	---	---	14.6	8.6	10.3	12.7	8.2	9.8	10.8	8.9	9.5
22	---	---	---	13.8	8.8	10.4	12.4	8.2	9.4	10.9	8.9	9.5
23	---	---	---	14.0	8.2	10.1	---	---	---	11.0	8.9	9.6
24	---	---	---	14.2	8.2	9.9	---	---	---	10.7	8.6	9.4
25	---	---	---	13.6	8.2	9.7	---	---	---	10.5	8.5	9.2
26	---	---	---	12.4	8.0	9.5	---	---	---	10.5	8.8	9.4
27	---	---	---	13.2	8.6	10.2	---	---	---	10.4	8.5	9.3
28	---	---	---	13.2	9.2	10.4	---	---	---	10.2	8.8	9.3
29	---	---	---	12.6	9.0	10.2	---	---	---	10.4	8.5	9.2
30	---	---	---	12.6	8.8	9.9	---	---	---	10.7	8.8	9.6
31	---	---	---	---	---	---	---	---	---	10.8	9.0	9.8
MONTH	11.0	4.2	6.7	15.1	8.0	10.0	12.7	8.2	9.8	12.5	8.0	9.4

PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39484809306022 STEWART GULCH AB WEST FORK, NEAR RIO BLANCO, CO.  
LONGITUDE 1081100 DRAINAGE AREA 44.00 DATUM 6430.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY		
			MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	10.9	8.7	9.6	11.0	8.3	9.3	10.8	8.2	9.3	10.4	8.4	9.1	10.4	8.4
2	11.2	8.7	9.6	10.9	8.3	9.4	10.8	8.4	9.3	10.4	8.4	9.2	10.4	8.4
3	11.3	8.5	9.5	11.2	8.1	9.1	11.8	8.6	9.9	10.2	8.0	9.2	10.2	8.0
4	11.2	8.6	9.5	11.1	8.1	9.2	11.8	8.0	9.8	10.2	8.2	9.0	10.2	8.2
5	11.3	8.5	9.6	11.3	8.1	9.3	12.2	8.2	9.9	10.0	8.5	9.0	10.0	8.5
6	11.1	8.4	9.4	11.1	8.2	9.2	12.0	8.0	9.9	10.0	8.2	9.0	10.0	8.2
7	11.2	8.5	9.4	11.3	8.1	9.3	12.2	8.8	10.3	9.9	8.4	8.9	9.9	8.4
8	11.1	9.2	9.9	10.8	8.4	9.3	12.0	8.8	10.1	9.8	8.3	8.9	9.8	8.3
9	10.8	9.1	9.8	10.7	8.3	9.3	12.2	8.6	10.1	9.8	8.2	8.9	9.8	8.2
10	10.6	8.9	9.6	10.5	8.3	9.2	12.2	8.8	10.0	9.7	8.2	8.8	9.7	8.2
11	10.7	8.9	9.6	10.7	8.2	9.2	12.2	9.0	10.2	9.6	8.0	8.8	9.6	8.0
12	10.8	8.7	9.5	10.6	8.3	9.3	12.2	8.8	10.2	10.0	8.2	9.1	10.0	8.2
13	11.2	8.5	9.4	10.6	8.4	9.4	12.0	8.0	10.0	9.8	8.8	9.1	9.8	8.8
14	10.9	7.7	9.0	10.6	8.2	9.3	11.8	7.0	9.8	---	---	---	---	---
15	11.2	7.6	8.8	10.8	8.1	9.3	12.0	8.5	10.0	---	---	---	---	---
16	11.3	7.4	9.0	10.8	8.7	9.6	11.6	8.8	10.0	---	---	---	---	---
17	11.2	7.5	9.0	10.8	8.6	9.6	11.4	8.6	9.9	---	---	---	---	---
18	12.2	7.6	8.7	10.6	8.2	9.3	11.4	8.6	9.9	---	---	---	---	---
19	11.2	7.3	8.8	10.8	8.0	9.1	11.2	8.4	9.7	---	---	---	---	---
20	10.8	7.8	8.6	10.8	8.0	9.1	11.4	8.4	9.7	---	---	---	---	---
21	11.2	8.2	9.2	10.6	8.0	9.2	11.2	8.2	9.5	---	---	---	---	---
22	11.2	8.3	9.3	10.4	8.0	9.0	11.1	8.4	9.4	---	---	---	---	---
23	11.4	8.4	9.6	10.8	8.0	9.2	11.1	8.2	9.4	---	---	---	---	---
24	11.4	8.8	9.7	10.8	8.2	9.3	10.9	8.4	9.3	---	---	---	---	---
25	11.3	8.6	9.7	11.0	8.2	9.3	10.9	8.4	9.5	---	---	---	---	---
26	11.4	8.4	9.6	11.4	8.6	9.6	10.8	8.6	9.5	---	---	---	---	---
27	11.7	8.1	9.6	11.0	8.2	9.4	10.6	8.4	9.5	---	---	---	---	---
28	11.8	7.9	9.5	11.4	8.4	9.5	10.4	8.4	9.3	---	---	---	---	---
29	11.2	8.2	9.2	11.4	8.4	9.5	10.6	8.2	9.1	---	---	---	---	---
30	---	---	---	11.6	8.6	9.6	10.5	8.2	9.1	---	---	---	---	---
31	---	---	---	11.6	8.4	9.6	---	---	---	---	---	---	---	---
MONTH	12.2	7.3	9.4	11.6	8.0	9.3	12.2	7.0	9.7	10.4	8.0	9.0	10.4	8.0

PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39484809306022  
LONGITUDE 1081100STEWART GULCH AH WEST FORK,  
DRAINAGE AREANEAR RIO BLANCO, CO.  
44.00 DAFUMSTREAM  
6430.00 STATE 08  
COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1290	1280	1290	---	---	---	1280	---	---	---	---	---
2	1290	1270	1290	---	---	---	1280	1260	1270	---	---	---
3	1290	1270	1280	---	---	---	1280	1260	1270	---	---	---
4	1290	1270	1280	---	---	---	1280	1260	1270	---	---	---
5	1290	1270	1280	---	---	---	1280	1260	1280	1280	1260	1270
6	1290	1270	1280	---	---	---	1280	1260	1270	1280	1260	1280
7	1290	1270	1280	---	---	---	1280	1260	1270	1280	1260	1270
8	1290	1270	1280	---	---	---	1280	1260	1270	1290	---	---
9	1290	1270	1280	---	---	---	1280	1260	1270	1290	---	---
10	1290	1270	1280	---	---	---	1280	1260	1270	1280	1250	1270
11	1290	1270	1280	---	---	---	1280	1250	1270	1290	1270	1280
12	1280	1270	1280	---	---	---	1280	1260	1280	1280	1270	1280
13	1280	1260	1280	---	---	---	1280	1260	1280	1280	1230	1270
14	1300	1270	1280	1280	1260	1270	1280	1260	1280	1280	1210	1260
15	1290	1260	1280	1280	1260	1270	1280	1260	1270	1280	1250	1270
16	1280	1270	1280	1280	1250	1270	1280	1260	1270	1280	1260	1280
17	1280	1280	1280	1280	1250	1270	1280	1260	1270	1280	1260	1280
18	---	---	---	1270	1240	1260	---	---	---	1280	1260	1270
19	---	---	---	1280	1220	1260	---	---	---	1280	1270	1280
20	---	---	---	1260	1240	1260	1280	1260	1270	1290	1270	1280
21	---	---	---	1280	1240	1260	1280	1260	1270	1280	1270	1280
22	---	---	---	1280	1240	1270	1280	1260	1270	1280	1260	1280
23	---	---	---	1280	1260	1270	---	---	---	1280	1270	1280
24	---	---	---	1280	1260	1270	---	---	---	1280	1260	1270
25	---	---	---	1280	1240	1260	---	---	---	1280	1270	1280
26	---	---	---	1280	1220	1260	---	---	---	1280	1270	1280
27	---	---	---	1280	1240	1270	---	---	---	1280	1270	1280
28	---	---	---	1280	1260	1270	---	---	---	1270	1250	1260
29	---	---	---	1280	1240	1270	---	---	---	1280	1270	1270
30	---	---	---	1280	1260	743	---	---	---	1280	1270	1280
31	---	---	---	---	---	---	---	---	---	1280	1270	1280
MONTH	1300	1260	1280	1280	1220	1240	1280	1250	1270	1290	1210	1280



PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39484809306022  
LONGITUDE 1081100STEWART GULCH AB WEST FORK, NEAR HIO BLANCO, CO.  
DRAINAGE AREA 44.00STREAM  
6430.00  
STATE OF COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	1280	1260	1280	1280	1230	1270	1320	1300	1310	1320	1260	1310
2	1280	1270	1280	1280	1270	1280	1320	1280	1300	1320	1260	1310
3	1280	1260	1270	1280	1240	1270	1320	1260	1310	1320	1300	1310
4	1280	1260	1280	1280	1270	1270	1320	1240	1290	1320	1300	1310
5	1290	1250	1280	1280	1230	1270	1340	1300	1320	1320	1300	1310
6	1280	1260	1280	1280	1220	1270	1320	1240	1300	1320	1260	1310
7	1280	1270	1280	1270	1250	1260	1320	1240	1300	1320	1240	1310
8	1290	1270	1280	1280	1260	1270	1320	1260	1310	1320	1300	1310
9	1290	1270	1280	1280	1260	1280	1320	1260	1310	1320	1300	1310
10	1290	1260	1280	1280	1240	1270	1320	1240	1300	1320	1300	1310
11	1290	1260	1280	1290	1260	1280	1320	1240	1310	1300	1240	1290
12	1290	1260	1280	1280	1250	1270	1330	1240	1300	1320	1260	1300
13	1280	1250	1270	1290	1260	1280	1320	1240	1300	1320	1300	1320
14	1280	1250	1270	1280	1200	1260	1330	1260	1310	---	---	---
15	1280	1150	1250	1280	1160	1260	1330	1300	1320	---	---	---
16	1280	1200	1260	1290	1240	1270	1330	1300	1320	---	---	---
17	1280	1240	1270	1290	1260	1280	1320	1240	1310	---	---	---
18	1280	844	1160	1290	1240	1270	1320	1300	1310	---	---	---
19	1260	950	1190	1320	1240	1280	1320	1300	1310	---	---	---
20	1270	1240	1250	1320	1240	1300	1320	1300	1310	---	---	---
21	1280	1270	1280	1320	1220	1300	1320	1300	1310	---	---	---
22	1280	1260	1270	1320	1280	1310	1320	1300	1310	---	---	---
23	1280	1230	1260	1320	1300	1310	1320	1300	1310	---	---	---
24	1290	1260	1280	1320	1260	1300	1320	1300	1310	---	---	---
25	1290	1250	1280	1320	1280	1300	1320	1300	1310	---	---	---
26	1290	1210	1270	1320	1280	1300	1320	1300	1310	---	---	---
27	1280	1090	1240	1320	1280	1310	1320	1300	1310	---	---	---
28	1280	1090	1230	1320	1300	1310	1320	1300	1310	---	---	---
29	1280	1250	1270	1320	1300	1310	1320	1280	1310	---	---	---
30	---	---	---	1320	1270	1310	1340	1300	1310	---	---	---
31	---	---	---	1320	1300	1310	---	---	---	---	---	---
MONTH	1290	844	1260	1320	1160	1280	1340	1240	1310	1320	1240	1310

PROCESS DATE IS 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 394848

09306022  
LONGITUDE 1081100

STEWART GULCH AB WEST FORK, NEAR RIO BLANCO, CO.  
DRAINAGE AREA 44.00

STREAM  
DATUM 6430.00

SOURCE AGENCY USGS  
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	17.0	6.0	10.0	---	---	---	7.0	1.5	3.5	---	---	---
2	16.0	6.0	10.0	---	---	---	7.5	2.0	4.5	---	---	---
3	15.5	6.0	9.0	---	---	---	9.5	4.0	5.5	---	---	---
4	16.0	4.5	9.0	---	---	---	9.0	3.0	5.5	---	---	---
5	16.0	5.0	9.0	---	---	---	8.5	3.5	5.5	8.0	3.5	5.5
6	16.5	5.0	9.5	---	---	---	9.5	3.0	5.0	6.5	3.0	4.5
7	16.5	5.5	9.5	---	---	---	9.0	3.5	5.5	7.5	3.5	4.5
8	16.0	5.5	9.5	---	---	---	9.0	4.5	6.0	7.5	---	---
9	15.0	5.5	9.0	---	---	---	9.5	3.5	5.5	6.5	---	---
10	15.5	5.0	9.0	---	---	---	9.0	4.0	5.5	7.5	2.5	5.0
11	15.5	5.5	9.0	---	---	---	7.0	1.5	4.0	6.0	1.5	4.0
12	15.0	5.5	9.0	---	---	---	6.5	1.0	3.0	7.0	4.5	5.5
13	15.5	5.5	9.0	---	---	---	6.5	1.5	3.0	10.0	5.5	7.0
14	11.5	6.5	8.5	8.5	3.5	5.5	7.0	2.0	4.0	7.0	4.0	6.0
15	15.0	5.5	9.0	10.5	3.0	5.5	8.0	2.5	4.5	9.0	5.0	6.5
16	14.5	6.0	9.0	10.5	3.0	5.5	8.5	3.0	4.5	8.0	5.0	6.0
17	6.0	4.5	5.0	9.5	3.0	6.0	8.5	3.0	5.0	8.0	5.0	6.0
18	---	---	---	10.5	4.0	6.5	---	---	---	9.0	5.0	6.0
19	---	---	---	5.5	2.5	4.5	---	---	---	6.0	4.0	4.5
20	---	---	---	7.0	3.0	5.0	7.5	3.5	5.5	8.5	3.5	5.0
21	---	---	---	7.0	2.0	4.0	7.5	3.0	5.5	8.5	3.0	4.5
22	---	---	---	8.0	1.0	3.5	6.5	5.0	5.5	8.5	3.0	5.0
23	---	---	---	7.0	2.0	4.0	---	---	---	8.5	2.5	4.5
24	---	---	---	7.0	3.0	5.0	---	---	---	9.0	3.5	5.0
25	---	---	---	8.0	4.0	5.5	---	---	---	9.5	4.0	6.0
26	---	---	---	6.0	4.0	5.0	---	---	---	8.0	3.0	4.5
27	---	---	---	8.0	3.0	3.0	---	---	---	7.5	3.0	5.0
28	---	---	---	7.0	1.0	2.5	---	---	---	5.0	4.0	4.5
29	---	---	---	6.0	0.0	2.5	---	---	---	8.5	4.0	6.0
30	---	---	---	6.5	0.0	2.0	---	---	---	8.0	2.0	4.5
31	---	---	---	---	---	---	---	---	---	8.0	1.5	4.0
MONTH	17.0	4.5	9.0	10.5	0.0	4.5	9.5	1.0	5.0	10.0	1.5	5.0

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39°48'48"09306022  
LONGITUDE 108°11'00"STEWART GULCH AB WEST FORK, NEAR RIO BLANCO, CO.  
DRAINAGE AREA 44.00 DATUM 6430.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

## PROVISIONAL DATA

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

DAY	FEBRUARY												APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
1	9.0	3.0	5.5	12.5	4.5	7.0	14.0	4.0	7.5	13.5	7.0	9.0	13.5	7.0	7.5			
2	8.5	4.0	6.0	8.5	4.0	6.0	8.0	4.0	6.0	15.0	1.0	9.0	15.0	1.0	6.0			
3	9.0	5.0	6.5	9.5	4.0	6.5	13.0	4.0	7.5	15.5	6.0	9.0	15.5	6.0	7.5			
4	9.0	3.5	6.5	11.5	5.0	7.0	15.0	.0	7.5	16.0	7.0	9.5	16.0	7.0	8.0			
5	10.0	3.0	5.0	11.5	5.0	7.0	14.0	4.0	8.0	16.0	7.0	9.5	16.0	7.0	7.5			
6	8.5	5.0	6.0	8.0	4.0	6.0	11.0	.0	6.0	14.0	7.0	9.5	14.0	7.0	6.0			
7	8.0	3.0	5.5	11.5	4.0	7.0	11.0	4.0	6.0	11.5	8.0	9.0	11.5	8.0	6.0			
8	8.5	1.5	3.5	11.0	4.0	7.0	14.0	3.0	7.0	14.0	7.0	9.5	14.0	7.0	7.5			
9	8.5	1.5	3.5	11.5	3.5	6.5	15.0	4.0	8.0	13.5	7.0	9.0	13.5	7.0	8.0			
10	9.0	2.0	4.5	13.0	4.0	7.0	11.0	5.0	7.5	15.0	7.0	10.0	15.0	7.0	7.5			
11	10.0	2.5	4.5	10.0	4.0	6.5	12.0	4.0	6.5	12.0	7.0	8.5	12.0	7.0	6.5			
12	9.5	2.5	5.0	9.5	4.0	6.0	13.0	.0	6.5	13.0	6.0	7.5	13.0	6.0	7.0			
13	10.0	4.5	6.0	12.5	3.0	6.5	14.0	.0	7.0	11.0	6.5	7.5	11.0	6.5	8.5			
14	8.5	6.0	6.5	13.0	4.0	7.0	16.0	1.0	8.5	---	---	---	---	---	---			
15	9.0	5.5	6.5	12.5	4.0	7.0	14.0	4.5	8.5	---	---	---	---	---	---			
16	10.5	5.5	7.0	10.0	2.5	5.5	15.5	4.5	8.5	---	---	---	---	---	---			
17	9.0	5.0	6.5	11.5	2.0	5.5	16.0	.0	8.5	---	---	---	---	---	---			
18	12.5	3.0	6.5	13.0	3.0	7.0	16.5	4.0	9.0	---	---	---	---	---	---			
19	10.5	5.0	6.5	13.0	5.0	7.5	17.0	5.0	9.5	---	---	---	---	---	---			
20	8.5	6.0	6.5	14.0	4.0	6.5	17.0	5.0	9.5	---	---	---	---	---	---			
21	9.5	5.5	6.5	14.0	4.0	7.5	17.0	6.0	10.0	---	---	---	---	---	---			
22	9.0	5.5	6.5	9.0	4.0	6.5	13.0	6.0	9.5	---	---	---	---	---	---			
23	8.5	3.0	6.0	12.0	4.0	7.0	14.0	6.0	9.0	---	---	---	---	---	---			
24	10.5	3.0	5.5	14.0	5.0	7.5	11.5	6.5	8.5	---	---	---	---	---	---			
25	11.5	2.5	5.5	9.0	4.5	5.5	16.0	5.0	9.0	---	---	---	---	---	---			
26	11.5	3.5	6.0	12.0	3.0	6.5	16.5	5.0	8.5	---	---	---	---	---	---			
27	12.5	4.0	6.5	14.0	3.0	7.0	16.5	5.0	9.5	---	---	---	---	---	---			
28	12.0	4.0	7.0	9.0	5.0	6.0	13.0	5.0	9.0	---	---	---	---	---	---			
29	9.5	5.5	6.5	11.0	4.0	7.0	13.5	6.5	9.5	---	---	---	---	---	---			
30	---	---	---	9.0	2.0	5.0	14.0	7.0	9.5	---	---	---	---	---	---			
31	---	---	---	11.0	4.0	6.0	---	---	---	---	---	---	---	---	---			
MONTH	12.5	1.5	6.0	14.0	2.0	6.5	17.0	.0	8.0	16.0	1.0	9.0	16.0	1.0	7.5			

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00609)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BICAR- BONATE (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE (MG/L AS C03) (00445)
JUN , 1979												
19...	430	--	.03	3	--	520	--	120	--	--	90	0
JUL												
17...	410	0	.01	1	50	500	--	100	.1	<1	78	0
AUG												
22...	420	--	.00	1	--	510	--	100	--	--	87	0
SEP												
20...	410	0	.00	1	50	--	--	80	.1	<1	92	--
OCT												
24...	410	--	.00	2	--	--	--	100	--	--	82	--
NOV												
14...	390	--	.03	3	--	--	--	200	--	--	73	--
DEC												
13...	420	10	.01	1	50	--	--	80	.1	<1	94	--
JAN , 1980												
23...	400	--	.01	2	--	--	--	80	--	--	89	--
FEB												
20...	400	--	.00	2	--	--	--	80	--	--	88	--
MAR												
25...	390	--	.00	2	--	--	--	80	--	--	83	--
APR												
24...	390	--	.00	1	--	--	--	110	--	--	86	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979											
19...	--	.00	--	--	--	--	--	--	--	--	--
JUL											
17...	--	.03	--	--	--	--	--	--	--	--	--
AUG											
22...	--	.00	--	--	--	--	--	--	--	--	--
SEP											
20...	--	.06	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV											
14...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
20...	--	--	--	--	--	--	--	--	--	--	--
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
24...	--	--	--	--	--	--	--	--	--	--	--



WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	4
17...	--	--	--	--	--	--	--	--	--	--	--
AUG	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP	--	--	--	--	--	--	--	--	--	--	0
20...	--	--	--	--	--	--	--	--	--	--	0
OCT	--	--	--	--	--	--	--	--	--	--	0
24...	--	--	--	--	--	--	--	--	--	--	0
NOV	--	--	--	--	--	--	--	--	--	--	0
14...	--	--	--	--	--	--	--	--	--	--	0
DEC	--	--	--	--	--	--	--	--	--	--	0
13...	--	--	--	--	--	--	--	--	--	--	4
JAN , 1980	--	--	--	--	--	--	--	--	--	--	3
23...	--	--	--	--	--	--	--	--	--	--	0
FEB	--	--	--	--	--	--	--	--	--	--	1
20...	--	--	--	--	--	--	--	--	--	--	--
MAR	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--
APH	--	--	--	--	--	--	--	--	--	--	--
24...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L AS C) (00691)
JUN , 1979											
19...	--	75	0	--	--	--	--	--	--	--	--
JUL											
17...	7	73	4	.0	--	<10	--	--	--	--	--
AUG											
22...	--	72	2	--	--	--	--	--	--	--	--
SEP											
20...	10	73	<1	.0	.00	<10	--	--	--	--	--
OCT											
24...	--	69	4	--	--	--	--	--	--	--	--
NOV											
14...	--	45	70	--	--	--	--	--	--	--	--
DEC											
13...	6	77	<1	.0	--	<10	--	--	--	--	--
JAN , 1980											
23...	--	74	2	--	--	--	--	--	--	--	--
FEB											
20...	--	72	5	--	--	--	--	--	--	--	--
MAR											
25...	--	67	4	--	--	--	--	--	--	--	--
APR											
24...	--	72	3	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	OXYGEN DEMAND (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	CUPPER, DIS- SOLVED (UG/L) AS CU (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)
JUN , 1979											
19...	--	6.3	--	--	--	--	--	--	.2	10	--
JUL											
17...	14	6.5	0	--	2100	0	--	184	.3	10	0
AUG											
22...	--	6.3	--	--	--	--	--	--	.2	10	--
SEP											
20...	12	6.3	10	--	590	2	--	760	.3	10	0
OCT											
24...	--	6.7	--	--	--	--	--	--	.3	10	--
NOV											
14...	--	15	--	--	--	--	--	--	1.1	20	--
DEC											
13...	14	6.0	0	--	K3600	0	--	K36	.3	<10	0
JAN , 1980											
23...	--	6.1	--	--	--	--	--	--	.3	<10	--
FEB											
20...	--	6.1	--	--	--	--	--	--	.3	40	--
MAR											
25...	--	7.2	--	--	--	--	--	--	.0	<10	--
APR											
24...	--	6.1	--	--	--	--	--	--	.3	<10	--

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979											
19...	1.0	--	14	140	936	--	350	--	--	--	--
JUL											
17...	1.6	1	16	120	919	2900	370	--	<3	.5	<4.7
AUG											
22...	1.2	--	17	120	939	--	380	--	--	--	--
SEP											
20...	1.8	1	17	120	944	2900	380	--	<3	<.3	<5.2
OCT											
24...	1.5	--	15	120	894	--	350	--	--	--	--
NOV											
14...	3.1	--	16	120	691	--	180	--	--	--	--
DEC											
13...	1.3	1	17	130	956	3000	370	--	<3	<.3	<7.3
JAN , 1980											
23...	1.3	--	16	130	911	--	350	--	--	--	--
FEB											
20...	1.7	--	15	120	888	--	340	--	--	--	--
MAR											
25...	1.3	--	14	120	870	--	340	--	--	--	--
APR											
24...	1.4	--	15	130	888	--	340	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 09306025 - WEST FORK STEWART GULCH NEAR RIO BLANCO, CO. DISTRICT CODE 08 PROCESS DATE 07/01/80

WATER QUALITY DATA

	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BICAR- BONATE (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE (MG/L AS C03) (00445)
--	---	--	--	---	---	---	---	---	---	---	---	---

DATE FEB 1980

18...

70	110	.33	1	200	--	200	.1	1	16	--
----	-----	-----	---	-----	----	-----	----	---	----	----



WATER QUALITY DATA

	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
CARBON, TOTAL (MG/L AS C) (00690)										
DATE										

FEB , 1980  
 18...

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WATER QUALITY DATA

HEPTA- CHLOR- TOTAL (UG/L) DATE	HEPTA- CHLOR- EPOXIDE TOTAL (UG/L) (39420)	PCH, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
FEB, 1980	--	--	--	--	--	--	--	--	--	10
18...	--	--	--	--	--	--	--	--	--	

WATER QUALITY DATA

LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE ALUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC DIS- SOLVED (MG/L AS C) (00691)
---	---	---	---	---	--	--	--	---	--	--

DATE  
FEB • 1980  
18...

0 2.4 40 .0 1 -- -- -- --

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306025 - WEST FORK STEWART GULCH NEAR RIO BLANCO, CO.

WATER QUALITY DATA

OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) AS CL) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)		COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)		COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
DATE												

FER , 1980	290	3.1	0	--	--	2	--	--	.1	480	0
18...											

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306025 - WEST FORK STEWART GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)		SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)		SILICA, DIS- SOLVED (MG/L AS SI02) (00955)		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)		SOLIDS, SUM OF CONSTIT- TUENTS, DIS- SOLVED (MG/L AS) (70301)		STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)		SULFATE DIS- SOLVED (MG/L AS S04) (00945)		SULFIDE DIS- SOLVED (MG/L AS S) (00746)		ZINC, DIS- SOLVED (UG/L AS ZN) (01090)		GROSS ALPHA, SUSP- TOTAL (PCI/L AS U-NAT) (01516)		GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	

FEB , 1980  
18...

9.6 0 3.0 2.9 85 130 3.1 -- 30 58 11



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
 09306028 - W F STEWART GULCH AT MOUTH, NEAR RIO BLANCO, CO. DISTRICT CODE 08

PROCESS DATE 07/01/80

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CACD3) (00410)	ALUM- INUM, DIS- SOLVED (UG/L, AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L, AS N) (00608)	ARSENIC DIS- SOLVED (UG/L, AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L, AS BA) (01005)	BICAR- BDNATE (MG/L, AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	IRON, DIS- SOLVED (UG/L, AS H) (01020)	BROMIDE DIS- SOLVED (MG/L, AS BR) (71670)	CADMIUM DIS- SOLVED (UG/L, AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L, AS CA) (00915)	CAR- BDNATE (MG/L, AS CO3) (00445)

FEB , 1980

18...

52 170 .12 2 200 -- -- 160 .0 0 17 --

## WATER QUALITY DATA

[illegible]

WATER QUALITY DATA

HEPTA- CHLOR. TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENDLS (UG/L) (32730)
DATE										
FEB , 1980	--	--	--	--	--	--	--	--	--	8
18...										

WATER QUALITY DATA

	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC DIS- SOLVED (MG/L AS C) (00691)
--	---	---	---	---	---	--	--	--	--	--

DATE

FEB , 1980  
18...

0 2.0 10 .1 -- -- -- -- --

WATER QUALITY DATA

OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)
--	--	--	--	---	---	---	--	---	---	---

FEB , 1980  
 18...

200	2.8	10	--	--	3	--	--	.1	60	0
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UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306028 - W F STEWART GULCH AT MOUTH, NEAR RIO BLANCO, CO. DISTRICT CODE 08

PROCESS DATE 07/01/80

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
FEB , 1980	7.0	0	8.1	3.7	82	200	7.6	--	10	<29	9.6
18...											

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MONTH
1										OCTOBER
2										
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
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22										
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24										
25										
26										
27										
28										
29										
30										
31										
										NOVEMBER
										DECEMBER
										JANUARY

PROCESS DATE IS 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE OR COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
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22												
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26												
27												
28												
29												
30												
31												
MONTH	2190	1160	2030	2080	1690	1850						

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 395001

09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.  
LONGITUDE 1041312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
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10												
11												
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30												
31												
MONTH												

STATION NUMBER 09306042 PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 395001 LONGITUDE 1081312 DRAINAGE AREA 1.06 DATUM 6335.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1												
2												
3												
4												
5												
6												
7												
8												
9												
10												
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25												
26												
27												
28												
29												
30												
31												
MONTH												



WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BICAR- BONATE (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE (MG/L AS CO3) (00445)
AUG , 1979												
07...	190	80	.34	5	200	232	--	210	2.2	0	51	0
OCT												
14...	190	--	.21	4	--	--	--	190	--	--	35	--
NOV												
30...	440	50	1.9	9	100	--	--	410	.1	<1	38	--
DEC												
08...	490	--	2.0	9	--	--	--	370	--	--	34	--
JAN , 1980												
20...	300	--	1.8	5	--	--	--	250	--	--	39	--
FEB												
19...	250	--	.85	3	--	--	--	220	--	--	19	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
AUG , 1979											
07...	--	.00	--	--	--	--	--	--	--	--	--
OCT											
18...	--	--	--	--	--	--	--	--	--	--	--
NOV											
30...	--	--	--	--	--	--	--	--	--	--	--
DEC											
08...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
20...	--	--	--	--	--	--	--	--	--	--	--
FEB											
19...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTA- CHLOR, EPOXIDE TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
AUG , 1979											
07...	--	--	--	--	--	--	--	--	--	--	0
OCT											
18...	--	--	--	--	--	--	--	--	--	--	2
NOV											
30...	--	--	--	--	--	--	--	--	--	--	2
DEC											
08...	--	--	--	--	--	--	--	--	--	--	3
JAN , 1980											
20...	--	--	--	--	--	--	--	--	--	--	1
FEB											
19...	--	--	--	--	--	--	--	--	--	--	7

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L) AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)	MERCURY DIS- SOLVED (UG/L) AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L) AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L) AS C) (00691)
AUG , 1979											
07...	30	16	10	.7	--	19	--	--	--	--	--
OCT											
18...	--	18	2	--	--	--	--	--	--	--	--
NOV											
30...	40	23	4	.0	--	29	--	--	--	--	--
DEC											
08...	--	22	5	--	--	--	--	--	--	--	--
JAN , 1980											
20...	--	17	20	--	--	--	--	--	--	--	--
FEB											
19...	--	7.5	10	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306042 - PICEANCE CREEK TRIBUTARY NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
AUG , 1979											
07...	250	14	0	--	--	2	--	--	2.3	80	0
OCT											
18...	--	8.8	--	--	--	--	--	--	3.5	110	--
NOV											
30...	26	8.7	0	--	4000	0	--	180	6.0	110	0
DEC											
08...	--	8.1	--	--	--	--	--	--	7.0	40	--
JAN , 1980											
20...	--	15	--	--	--	--	--	--	6.9	20	--
FEB											
19...	--	6.8	--	--	--	--	--	--	2.7	330	--



WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
AUG , 1979											
07...	6.5	1	54	230	954	1100	460	--	10	390	14
OCT											
18...	6.7	--	53	220	891	--	410	--	--	--	--
NOV											
30...	6.4	0	38	280	1000	1700	300	--	<3	5.4	6.5
DEC											
08...	4.7	--	27	290	966	--	250	--	--	--	--
JAN , 1980											
20...	6.3	--	7.6	280	1010	--	430	--	--	--	--
FEH											
19...	4.1	--	32	120	491	--	140	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306050 - STANDARD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

ALKA- LITY (MG/L AS CAC03) DATE	ALUM- INUM, DIS- SOLVED (UG/L) AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	ARSENIC DIS- SOLVED (UG/L) AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L) AS BA) (01005)	BICAR- BONATE (MG/L) AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L) AS B) (01020)	BROMIDE DIS- SOLVED (MG/L) AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L) AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	CAR- BONATE (MG/L) AS C03) (00445)
FER + 1980 19...	37	.10	1	--	--	--	150	--	--	15	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306050 - SCANDARD GULCH NEAR RIO BLANCO, CO.

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)
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19...

LINDRIN*	LINDANE		CHLOR-		DDD*	DDE*	DOT*	DI-		ENDRIN*	TOX-
	TOTAL	(UG/L)	DANE*	TOTAL				TOTAL	TOTAL		
(39330)	(39340)	(39350)	(39360)	(39365)	(39370)	(39380)	(39390)	(39400)			

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306050 - SCANDARD GULCH NEAR RIO BLANCO, CO.

WATER QUALITY DATA

DATE	HEPTA- CHLOR, EPOXIDE TOTAL (UG/L) (39410)	HEPTA- CHLOR TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)

FER, 1980 -- -- -- -- -- -- -- 13  
19...

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306050 - SCANDARD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

	LITHIUM DIS- SOLVED (UG/L) AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN) (01056)	MERCURY DIS- SOLVED (UG/L) AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L) AS C) (00692)	CARBON, INORG + INOH- GANIC, DIS- SOLVED (MG/L) AS C) (00691)
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DATE FEB , 1980

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UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306050 - SCANDARD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL, 0.45 UM-HF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
FEB , 1980	--	3.4	--	--	--	--	--	--	.1	30	--
19...	--		--	--	--	--	--	--			--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306050 - STANDARD GULCH NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTAS-		SILICA,		SODIUM,		SOLIDS,		STRON-		SULFATE		SULFIDE		ZINC,		GROSS	
	SIUM,	SELE-	DIS-	DIS-	DIS-	DIS-	SUM OF	CONSTITUENTS,	TIUM,	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	DIS-	ALPHA,	BETA,
	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED			SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SOLVED	SUSP.	DIS-
	(MG/L	(UG/L	(MG/L	(MG/L	(MG/L	(MG/L			(UG/L	(UG/L	(MG/L	(MG/L	(MG/L	(MG/L	(UG/L	(PCI/L	(PCI/L	AS
	AS K)	AS SE)	AS	AS	AS NA)	AS NA)			AS SR)	AS SR)	AS SO4)	AS S)	AS S)	AS S)	AS ZN)	AS	U-NAT)	CS-137)
	(00935)	(01145)	(00955)	(00955)	(00930)	(00930)	(70301)	(70301)	(01080)	(01080)	(00945)	(00746)	(00746)	(00746)	(01090)	(01516)	(01516)	(03515)

FEB , 1980  
19...

6.1 3.1 1.6 70 17 -- -- --

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CACO3) (00410)	ALUM- INUM, DIS- SOLVED (UG/L) AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	ARSENIC DIS- SOLVED (UG/L) AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L) AS BA) (01005)	BICAR- HONATE (MG/L) AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L) AS B) (01020)	BROMIDE DIS- SOLVED (MG/L) AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L) AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	CAR- BONATE (MG/L) AS CO3) (00445)
19...												



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306052 - SCANDARD GULCH AT MOUTH, NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCH, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
FEB, 1980	--	--	--	--	--	--	--	--	--	--	5
19...	--	--	--	--	--	--	--	--	--	--	



WATER QUALITY DATA

	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L AS C) (00691)
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DATE FEB , 1980

19...

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## WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEMICAL (HIGH LEVEL)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL)	CHRO- MIUM, DIS- SOLVED (UG/L AS CR)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML)	COPPER, DIS- SOLVED (UG/L AS CU)	CYANIDE DIS- SOLVED (MG/L AS CN)	STREP- TOCOC- CI, FECAL, (COLS. PER 100 ML)	FLUO- RIDE, DIS- SOLVED (MG/L AS F)	IRON, DIS- SOLVED (UG/L AS FE)	LEAD, DIS- SOLVED (UG/L AS PB)
1980	140	5.5	0	--	--	2	--	--	.3	60	0
19...				--	--						

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)		SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)		SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)		SODIUM, DIS- SOLVED (MG/L AS NA) (00930)		SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L AS SR) (70301)		STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)		SULFATE DIS- SOLVED (MG/L AS SO4) (00945)		SULFIDE DIS- SOLVED (MG/L AS S) (00746)		ZINC, DIS- SOLVED (UG/L AS ZN) (01090)		GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)		GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)	

FEB , 1980 4.8 0 8.7 21 136 180 28 -- 10 39 8.5  
 19...

PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.  
LONGITUDE 1081437 DRAINAGE AREA 48.40SOURCE AGENCY USGS  
STATE 08 COUNTY 103STREAM  
DATUM 6273.00

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	---	---	---	---	---	---	---	---	---	---	---	8.4	7.2	7.7
2	---	---	---	---	---	---	---	---	---	---	---	8.7	7.6	8.1
3	---	---	---	---	---	---	---	---	---	---	---	9.2	7.4	8.3
4	---	---	---	---	---	---	---	---	---	---	---	8.7	7.5	8.1
5	---	---	---	---	---	---	---	---	---	---	---	8.7	8.3	8.4
6	---	---	---	---	---	---	---	---	---	---	---	8.4	8.1	8.2
7	---	---	---	---	---	---	---	---	---	---	---	8.3	8.1	8.2
8	---	---	---	---	---	---	---	---	---	---	---	8.4	8.0	8.1
9	---	---	---	---	---	---	---	---	---	---	---	8.3	7.9	8.1
10	---	---	---	---	---	---	---	---	---	---	---	8.3	7.9	8.0
11	---	---	---	---	---	---	---	---	---	---	---	8.5	7.4	7.7
12	---	---	---	---	---	---	---	---	---	---	---	8.4	7.3	7.7
13	---	---	---	---	---	8.4	8.3	8.3	8.4	8.4	7.4	8.6	7.4	7.6
14	---	---	---	---	---	8.3	7.5	7.5	8.1	8.1	7.3	7.8	7.3	7.4
15	8.5	8.4	8.4	8.5	8.5	7.9	6.5	6.5	7.4	7.4	7.4	7.4	7.3	7.3
16	8.6	8.4	8.4	8.5	8.5	7.7	6.4	6.4	7.0	7.0	---	---	---	---
17	8.7	8.4	8.4	8.6	8.6	7.9	7.8	7.8	7.9	7.9	---	---	---	---
18	8.5	8.3	8.3	8.4	8.4	---	---	---	---	---	---	---	---	---
19	8.4	8.2	8.2	8.3	8.3	---	---	---	---	---	---	---	---	---
20	8.4	8.3	8.3	8.3	8.3	8.6	8.5	8.5	8.5	8.5	---	---	---	---
21	8.4	8.3	8.3	8.3	8.3	8.6	8.3	8.3	8.5	8.5	---	---	---	---
22	8.4	8.3	8.3	8.3	8.3	8.8	8.4	8.4	8.5	8.5	---	---	---	---
23	8.4	8.2	8.2	8.3	8.3	9.0	8.4	8.4	8.7	8.7	---	---	---	---
24	8.5	8.3	8.3	8.3	8.3	9.0	8.3	8.3	8.6	8.6	---	---	---	---
25	---	---	---	---	---	8.7	8.2	8.2	8.5	8.5	---	---	---	---
26	---	---	---	---	---	9.2	7.8	7.8	8.2	8.2	---	---	---	---
27	---	---	---	---	---	8.6	7.7	7.7	7.9	7.9	---	---	---	---
28	---	---	---	---	---	9.0	8.2	8.2	8.6	8.6	---	---	---	---
29	---	---	---	---	---	9.2	8.0	8.0	8.7	8.7	---	---	---	---
30	---	---	---	---	---	9.0	7.3	7.3	7.9	7.9	---	---	---	---
31	---	---	---	---	---	8.3	7.0	7.0	7.6	7.6	---	---	---	---
MONTH	8.7	8.2	8.2	8.4	8.4	9.2	6.4	6.4	8.2	8.2	7.2	9.2	7.2	7.9

PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.  
LONGITUDE 1081437

DRAINAGE AREA 48.40 DATUM 6273.00 STREAM

SOURCE AGENCY USGS  
STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							8.7	8.5	8.6	8.3	8.0	8.2
2							8.7	8.5	8.6	8.2	8.1	8.2
3							8.7	8.5	8.6	8.2	8.1	8.2
4							8.8	8.6	8.7	8.2	8.1	8.2
5				8.5	8.4	8.4	8.8	8.6	8.7			
6				8.6	8.4	8.5	8.8	8.6	8.7			
7				8.6	8.5	8.5	8.7	8.6	8.6			
8				8.7	8.5	8.6	8.3	8.2	8.6			
9				8.7	8.5	8.6	8.4	8.2	8.3			
10				8.7	8.6	8.6	8.4	8.3	8.3			
11				8.8	8.6	8.7	8.4	8.3	8.4			
12				8.7	8.6	8.7	8.5	8.4	8.4			
13				8.7	8.5	8.6	8.5	8.4	8.4			
14				8.6	8.5	8.5	8.5	8.4	8.4			
15				8.6	8.4	8.5	8.5	8.4	8.5			
16				8.5	8.3	8.4	8.6	8.4	8.5			
17				8.7	8.2	8.5	8.6	8.3	8.5			
18				8.7	8.6	8.7	8.4	8.3	8.4			
19				8.8	8.6	8.7	8.4	8.3	8.3			
20				8.7	8.6	8.7	8.4	8.3	8.3			
21				8.8	8.6	8.7	8.4	8.3	8.3			
22				8.8	8.6	8.7	8.3	8.3	8.3			
23				8.8	8.6	8.7	8.3	8.2	8.3			
24				8.8	8.6	8.7	8.3	8.3	8.3			
25				8.8	8.6	8.7	8.4	8.2	8.3			
26				8.7	8.6	8.6	8.3	8.2	8.3			
27				8.7	8.6	8.6	8.3	8.2	8.3			
28				8.8	8.6	8.7	8.3	8.2	8.3			
29				8.7	8.6	8.7	8.3	8.2	8.2			
30				8.8	8.6	8.6	8.4	8.0	8.3			
31				8.7	8.6	8.6	---	---	---			
MONTH	8.8	8.2	8.6	8.8	8.0	8.4	8.8	8.0	8.4	8.3	8.0	8.2



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306058 WILLLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	MAX	MIN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	---	---	---	---	---	---	---	---	---	---	---	6.9	6.5	6.7
2	---	---	---	---	---	---	---	---	---	---	---	6.7	6.3	6.5
3	---	---	---	---	---	---	---	---	---	---	---	6.7	6.4	6.5
4	---	---	---	---	---	---	---	---	---	---	---	11.2	6.4	8.3
5	---	---	---	---	---	---	---	---	---	---	---	11.5	10.8	11.2
6	---	---	---	---	---	---	---	---	---	---	---	11.5	11.2	11.3
7	---	---	---	---	---	---	---	---	---	---	---	11.4	11.1	11.3
8	---	---	---	---	---	---	---	---	---	---	---	11.4	10.8	11.1
9	---	---	---	---	---	---	---	---	---	---	---	11.2	10.5	10.9
10	---	---	---	---	---	---	---	---	---	---	---	11.2	10.2	10.6
11	---	---	---	---	---	---	---	---	---	---	---	11.2	10.7	11.0
12	---	---	---	---	---	---	---	---	---	---	---	10.9	10.3	10.6
13	---	---	---	---	---	9.6	9.6	9.5	9.6	9.6	9.5	10.6	9.5	10.1
14	---	---	---	---	---	9.6	9.4	8.9	9.4	9.4	10.0	10.4	10.0	10.1
15	8.1	---	9.5	9.4	9.2	9.5	9.4	9.2	9.4	9.4	9.8	10.4	9.8	10.1
16	8.1	---	9.6	9.1	5.8	9.6	9.1	5.8	9.1	9.1	10.1	10.7	10.1	10.4
17	8.0	---	9.6	9.3	8.6	9.6	9.3	8.6	9.3	9.3	9.8	10.7	9.8	10.3
18	8.1	---	---	---	---	---	---	---	---	---	9.8	10.5	9.8	10.2
19	8.1	---	---	---	---	---	---	---	---	---	10.3	10.8	10.3	10.5
20	8.0	---	11.2	10.7	10.5	11.2	10.7	10.5	10.7	10.7	9.6	10.7	9.6	10.4
21	9.2	---	10.9	10.4	9.8	10.9	10.4	9.8	10.4	10.4	---	---	---	---
22	9.2	---	9.9	9.8	9.5	9.9	9.8	9.5	10.4	9.8	9.6	10.4	9.6	10.0
23	8.2	---	9.9	9.6	9.1	9.9	9.6	9.1	10.5	10.5	9.6	10.5	9.6	10.2
24	8.9	---	9.7	9.2	8.8	9.7	9.2	8.8	10.3	10.3	9.2	10.3	9.2	9.8
25	---	---	8.8	8.5	8.1	8.8	8.5	8.1	9.9	9.9	9.0	9.9	9.0	9.6
26	---	---	8.5	8.2	7.8	8.5	8.2	7.8	9.9	9.9	9.3	9.9	9.3	9.6
27	---	---	8.0	7.8	7.6	8.0	7.8	7.6	9.8	9.8	9.4	9.8	9.4	9.6
28	---	---	7.8	7.6	7.4	7.8	7.6	7.4	9.8	9.8	9.6	9.8	9.6	9.7
29	---	---	7.6	7.5	7.3	7.6	7.5	7.3	9.7	9.7	8.9	9.7	8.9	9.4
30	---	---	7.4	7.2	6.8	7.4	7.2	6.8	11.8	11.8	3.7	11.8	3.7	10.1
31	---	---	7.2	7.1	6.7	7.2	7.1	6.7	12.0	12.0	2.6	12.0	2.6	6.2
MONTH	8.0	---	11.2	8.9	5.8	11.2	8.9	5.8	12.0	12.0	2.6	12.0	2.6	9.7

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.  
LONGITUDE 1081437STREAM  
DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY						APRIL						MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	11.3	9.0	10.2	9.8	8.1	8.9			
2	---	---	---	---	---	---	11.2	10.1	10.5	9.9	7.8	8.9			
3	---	---	---	---	---	---	9.8	7.8	9.3	10.0	8.0	8.9			
4	12.1	11.3	11.6	---	---	---	10.8	8.3	9.6	9.7	5.0	7.9			
5	12.7	11.3	12.0	12.6	10.0	10.5	10.6	8.2	9.5	---	---	---			
6	11.9	10.9	11.6	11.3	10.5	10.8	10.7	9.0	9.7	---	---	---			
7	11.9	11.1	11.5	11.3	9.6	10.6	11.0	9.3	10.1	---	---	---			
8	12.4	11.3	12.0	11.2	9.7	10.5	11.2	8.5	10.0	---	---	---			
9	12.4	3.7	9.4	11.5	9.9	10.6	11.1	8.4	9.8	---	---	---			
10	12.2	11.0	11.9	11.4	9.2	10.4	10.5	8.8	9.5	---	---	---			
11	12.0	10.9	11.7	11.3	9.6	10.5	10.9	9.6	10.1	---	---	---			
12	12.0	11.5	11.8	11.4	9.8	10.5	11.1	8.9	10.1	---	---	---			
13	11.8	10.8	11.4	11.5	9.9	10.7	11.1	8.2	9.8	---	---	---			
14	11.6	10.7	11.2	11.5	9.5	10.5	10.8	7.5	9.3	---	---	---			
15	11.6	10.8	11.2	11.1	9.6	10.3	10.5	8.0	9.2	---	---	---			
16	11.5	10.5	11.0	11.5	10.1	10.8	10.6	7.9	9.3	---	---	---			
17	11.5	10.5	11.0	11.5	10.4	11.2	10.6	8.4	9.3	---	---	---			
18	11.6	10.1	11.0	11.7	9.5	10.8	11.1	8.3	9.7	---	---	---			
19	11.5	11.3	11.4	11.4	9.3	10.4	11.0	8.0	9.5	---	---	---			
20	---	---	---	11.7	9.5	10.6	10.9	7.9	9.5	---	---	---			
21	---	---	---	11.4	9.4	10.4	10.6	7.9	9.2	---	---	---			
22	---	---	---	11.1	10.0	10.5	10.2	8.1	9.1	---	---	---			
23	---	---	---	11.2	9.6	10.3	10.2	8.1	9.1	---	---	---			
24	---	---	---	11.3	9.3	10.3	9.8	8.5	9.1	---	---	---			
25	---	---	---	11.2	10.3	10.6	10.3	7.7	9.0	---	---	---			
26	---	---	---	11.4	9.6	10.5	10.2	7.6	9.0	---	---	---			
27	---	---	---	11.1	9.4	10.4	10.2	7.5	8.9	---	---	---			
28	---	---	---	11.3	10.2	10.7	10.1	7.4	8.7	---	---	---			
29	---	---	---	11.2	9.4	10.4	9.3	6.8	8.4	---	---	---			
30	---	---	---	11.4	9.9	10.7	9.6	8.0	8.8	---	---	---			
31	---	---	---	11.2	9.7	10.5	---	---	---	---	---	---			
MONTH	12.7	3.7	11.4	12.6	9.2	10.6	11.3	6.8	9.4	10.0	5.0	8.7			

PROCESS DATE 15 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306058 WILLOW CREEK NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 395014 LONGITUDE 1081437 DRAINAGE AREA 48.40 DATUM 6273.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	OCTOBER				NOVEMBER				DECEMBER				JANUARY			
	MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN		MAX	MIN	MEAN	
1	---	---	---		---	---	---		---	---	---		1240	1200	1220	
2	---	---	---		---	---	---		---	---	---		1230	1190	1210	
3	---	---	---		---	---	---		---	---	---		1260	1190	1220	
4	---	---	---		---	---	---		---	---	---		1240	1210	1220	
5	---	---	---		---	---	---		---	---	---		1240	1200	1220	
6	---	---	---		---	---	---		---	---	---		1300	1220	1250	
7	---	---	---		---	---	---		---	---	---		1260	1190	1240	
8	---	---	---		---	---	---		---	---	---		1260	1210	1240	
9	---	---	---		---	---	---		---	---	---		1270	1220	1240	
10	---	---	---		---	---	---		---	---	---		1250	1170	1210	
11	---	---	---		---	---	---		---	---	---		1340	1210	1270	
12	---	---	---		---	---	---		---	---	---		1240	1190	1220	
13	---	---	---		---	---	---		1240	1220	1230		1260	1070	1170	
14	---	---	---		---	---	---		1270	1190	1230		1170	1110	1140	
15	1280	1260	1270		---	---	---		1240	1180	1210		1230	1160	1200	
16	1300	1260	1280		---	---	---		1230	1160	1190		1250	1210	1220	
17	1300	1260	1280		---	---	---		1220	968	1180		1240	1200	1220	
18	1290	1260	1270		---	---	---		---	---	---		1250	1200	1230	
19	1290	1260	1270		---	---	---		---	---	---		1220	1210	1220	
20	1290	1210	1260		---	---	---		1200	1190	1200		1240	1210	1220	
21	1290	1270	1280		---	---	---		1280	1200	1210		---	---	---	
22	1320	1260	1290		---	---	---		1220	1190	1210		1220	1200	1210	
23	1310	1270	1290		---	---	---		1220	1200	1210		1300	1180	1240	
24	1300	1290	1300		---	---	---		1250	1200	1230		1340	1180	1230	
25	---	---	---		---	---	---		1250	1200	1220		1230	1190	1210	
26	---	---	---		---	---	---		1240	1200	1220		1240	1200	1230	
27	---	---	---		---	---	---		1230	1190	1210		1300	1180	1240	
28	---	---	---		---	---	---		1230	1190	1210		1230	1160	1190	
29	---	---	---		---	---	---		1260	1190	1230		1210	1150	1190	
30	---	---	---		---	---	---		1270	1200	1240		1300	1210	1250	
31	---	---	---		---	---	---		1290	1190	1240		1410	1140	1270	
MONTH	1320	1210	1280		1290	968	1220		1290	968	1220		1410	1070	1220	

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.  
LONGITUDE 1081437 DRAINAGE AREASTREAM  
6273.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	1280	1230	1260	1240	1220	1250
2	---	---	---	---	---	---	1270	1230	1250	1280	1200	1240
3	---	---	---	---	---	---	1290	1240	1270	1240	1200	1240
4	1160	1140	1150	---	---	---	1290	1220	1260	1270	1170	1230
5	1220	1160	1190	1210	1160	1180	1290	1210	1260	---	---	---
6	1230	1200	1220	1220	1150	1190	1280	1250	1260	---	---	---
7	1220	1200	1210	1190	1160	1180	1280	1250	1270	---	---	---
8	1320	1190	1250	1220	1190	1200	1300	1240	1270	---	---	---
9	1400	1210	1290	1220	1190	1210	1290	1220	1250	---	---	---
10	1360	1170	1260	1230	1160	1200	1270	1220	1250	---	---	---
11	1310	1160	1240	1230	1170	1200	1280	1240	1260	---	---	---
12	1280	1160	1230	1210	1180	1200	1290	1240	1260	---	---	---
13	1240	1200	1220	1260	1190	1220	1290	1230	1250	---	---	---
14	1240	1190	1210	1230	1080	1180	1280	1200	1240	---	---	---
15	1200	1050	1150	1220	1100	1170	1270	1200	1230	---	---	---
16	1170	1030	1110	1230	1150	1190	1270	1200	1230	---	---	---
17	1220	966	1130	1330	1190	1240	1270	1140	1220	---	---	---
18	1170	596	895	1280	1180	1220	1270	1190	1230	---	---	---
19	1040	704	890	1230	1170	1190	1270	1180	1230	---	---	---
20	---	---	---	1230	1170	1200	1310	1210	1270	---	---	---
21	---	---	---	1230	1120	1190	1310	1220	1270	---	---	---
22	---	---	---	1220	1160	1190	1300	1230	1260	---	---	---
23	---	---	---	1240	1190	1220	1310	1220	1270	---	---	---
24	---	---	---	1240	1160	1220	1300	1240	1270	---	---	---
25	---	---	---	1220	1160	1200	1300	1220	1260	---	---	---
26	---	---	---	1230	1190	1220	1300	1200	1260	---	---	---
27	---	---	---	1290	1210	1250	1300	1210	1250	---	---	---
28	---	---	---	1260	1220	1240	1290	1210	1250	---	---	---
29	---	---	---	1260	1210	1240	1290	1200	1240	---	---	---
30	---	---	---	1280	1210	1250	1300	1200	1250	---	---	---
31	---	---	---	1280	1220	1250	---	---	---	---	---	---
MONTH	1400	596	1170	1330	1080	1210	1310	1140	1250	1280	1170	1240

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.  
LONGITUDE 1081437 DRAINAGE AREA 48.40STREAM  
6273.00 DATUM  
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	---	---	---	---	---	---	3.0	.5	2.0
2	---	---	---	---	---	---	---	---	---	3.5	.5	2.0
3	---	---	---	---	---	---	---	---	---	2.0	.0	1.0
4	---	---	---	---	---	---	---	---	---	4.0	1.5	2.0
5	---	---	---	---	---	---	---	---	---	4.5	.5	2.0
6	---	---	---	---	---	---	---	---	---	2.0	.0	.5
7	---	---	---	---	---	---	---	---	---	3.0	.0	1.0
8	---	---	---	---	---	---	---	---	---	3.5	.5	2.0
9	---	---	---	---	---	---	---	---	---	4.0	1.5	2.5
10	---	---	---	---	---	---	---	---	---	4.0	.0	2.5
11	---	---	---	---	---	---	---	---	---	1.0	.0	.5
12	---	---	---	---	---	---	---	---	---	3.0	1.0	2.0
13	---	---	---	---	---	---	.0	.0	.0	6.5	2.0	4.0
14	---	---	---	---	---	---	.5	.0	.0	4.0	2.5	3.5
15	13.0	9.5	11.5	2.0	.0	.5	2.0	.0	.5	6.0	3.0	4.5
16	---	6.5	---	7.0	.0	1.5	7.0	.0	1.5	5.5	2.5	3.5
17	---	3.5	---	2.5	.0	.5	2.5	.0	.5	6.5	2.0	3.5
18	---	6.0	---	---	---	---	---	---	---	5.5	2.5	4.0
19	---	8.0	---	---	---	---	---	---	---	3.0	1.0	1.5
20	---	4.0	---	3.5	1.0	2.5	3.5	1.0	2.5	5.0	.0	1.5
21	---	4.0	---	3.5	.0	2.0	3.5	.0	2.0	---	---	---
22	---	1.5	---	4.0	3.0	3.5	4.0	3.0	3.5	5.0	.0	2.5
23	---	2.5	---	4.5	.0	2.0	4.5	.0	2.0	3.5	.0	1.0
24	7.0	3.0	4.5	2.5	.0	1.5	2.5	.0	1.5	4.5	.0	1.5
25	---	---	---	4.0	1.0	2.0	4.0	1.0	2.0	5.5	.5	2.0
26	---	---	---	3.0	.0	1.5	3.0	.0	1.5	3.5	.0	1.0
27	---	---	---	2.5	1.5	2.0	2.5	1.5	2.0	3.0	.0	1.0
28	---	---	---	3.0	1.0	2.0	3.0	1.0	2.0	1.0	.0	.5
29	---	---	---	2.5	.0	.5	2.5	.0	.5	4.0	.0	1.5
30	---	---	---	2.0	.0	.5	2.0	.0	.5	3.5	.0	1.0
31	---	---	---	1.5	.0	.5	1.5	.0	.5	5.5	---	---
MONTH	13.0	1.5	8.0	7.0	.0	1.5	7.0	.0	1.5	6.5	.0	2.0



PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39501409306058 WILLOW CREEK NEAR RIO BLANCO, CO.  
LONGITUDE 1081437 DRAINAGE AREASTREAM  
6273.00 DATUM  
STATE OH COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY		
			MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	---	---	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---	---	---
4	7.0	1.5	4.5	---	---	---	---	---	---	---	---	---	---	---
5	5.0	.0	2.0	9.0	4.0	6.5	14.0	3.0	6.0	---	---	---	---	---
6	5.5	1.0	3.0	4.5	2.0	3.0	10.0	3.0	6.5	---	---	---	---	---
7	5.0	.5	3.0	9.5	1.0	5.0	10.0	1.5	5.0	---	---	---	---	---
8	2.5	.0	.5	9.0	1.0	5.0	14.5	.0	6.0	---	---	---	---	---
9	4.5	.0	1.0	9.0	.5	4.5	14.5	1.5	7.5	---	---	---	---	---
10	2.0	.0	.5	11.5	.5	5.0	12.0	4.5	7.5	---	---	---	---	---
11	3.0	.0	.5	8.5	.5	4.5	7.0	2.5	4.5	---	---	---	---	---
12	3.0	.0	1.0	9.0	1.5	4.5	12.5	.0	5.5	---	---	---	---	---
13	6.0	.5	3.0	10.0	.0	4.0	15.0	.5	6.5	---	---	---	---	---
14	6.0	3.0	4.0	11.5	1.0	5.5	17.0	1.0	8.5	---	---	---	---	---
15	6.0	3.5	4.5	11.0	2.0	6.0	14.0	3.0	8.5	---	---	---	---	---
16	7.0	3.0	4.5	8.5	.0	3.5	16.0	2.0	8.5	---	---	---	---	---
17	6.5	3.0	4.5	7.5	.0	2.5	17.5	2.0	10.0	---	---	---	---	---
18	6.0	1.0	3.5	11.5	.0	4.5	18.0	2.5	9.5	---	---	---	---	---
19	4.0	1.5	2.0	13.0	2.0	6.5	18.5	3.5	10.0	---	---	---	---	---
20	---	---	---	13.0	1.0	6.5	19.0	4.0	10.5	---	---	---	---	---
21	---	---	---	13.5	2.0	7.0	18.5	5.0	11.0	---	---	---	---	---
22	---	---	---	7.0	3.0	5.0	15.0	7.5	10.5	---	---	---	---	---
23	---	---	---	10.5	3.0	6.5	16.5	5.5	10.0	---	---	---	---	---
24	---	---	---	12.5	3.0	7.5	12.5	7.5	9.5	---	---	---	---	---
25	---	---	---	6.0	1.5	3.5	18.0	3.0	10.0	---	---	---	---	---
26	---	---	---	10.5	.5	4.5	18.5	3.0	10.0	---	---	---	---	---
27	---	---	---	10.5	.0	4.5	19.5	3.0	10.5	---	---	---	---	---
28	---	---	---	7.0	1.5	4.0	15.0	4.5	10.0	---	---	---	---	---
29	---	---	---	11.0	2.0	5.5	16.0	6.5	10.0	---	---	---	---	---
30	---	---	---	7.0	1.0	3.0	15.0	7.0	10.5	---	---	---	---	---
31	---	---	---	9.5	.0	4.0	---	---	---	---	---	---	---	---
MONTH	7.0	.0	2.5	13.5	.0	5.0	19.5	.0	8.5	19.5	.0	---	---	11.0

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, OIS- SOLVED (UG/L AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS BA) (01005)	BICAR- BONATE (MG/L HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMINE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM OIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE (MG/L AS CO3) (00445)
JUN , 1979												
19...	430	--	.00	6	--	520	--	150	--	--	95	0
JUL												
12...	443	--	--	--	--	540	--	--	--	--	--	0
17...	390	20	.01	4	70	470	--	160	.1	<1	69	0
AUG												
22...	420	--	.00	1	--	510	--	100	--	--	87	0
22...	380	--	.00	1	--	463	--	150	--	--	92	0
SEP												
04...	--	--	--	--	--	560	--	--	--	--	--	--
21...	--	0	.01	1	70	--	--	130	.1	<1	100	--
27...	--	--	--	--	--	590	--	--	--	--	--	--
OCT												
24...	410	--	.00	2	--	--	--	120	--	--	88	--
NOV												
15...	400	--	.01	3	--	--	--	120	--	--	95	--
DEC												
13...	410	20	.01	2	60	--	--	100	.1	<1	98	--
JAN , 1980												
22...	390	--	.02	2	--	--	--	110	--	--	91	--
FEB												
19...	340	--	.24	1	--	--	--	140	--	--	76	--
MAR												
25...	370	--	.00	2	--	--	--	110	--	--	86	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
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WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979											
19...	--	.09	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	--	.12	--	--	--	--	--	--	--	--	--
AUG											
22...	--	.00	--	--	--	--	--	--	--	--	--
22...	--	.03	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	--	.03	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
13...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
22...	--	--	--	--	--	--	--	--	--	--	--
FFH											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
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WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979											
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	0
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	0
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	0
NOV											
15...	--	--	--	--	--	--	--	--	--	--	2
DEC											
13...	--	--	--	--	--	--	--	--	--	--	3
JAN , 1980											
22...	--	--	--	--	--	--	--	--	--	--	1
FEB											
19...	--	--	--	--	--	--	--	--	--	--	4
MAR											
25...	--	--	--	--	--	--	--	--	--	--	0

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
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PROCESS DATE 07/01/80  
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WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUR- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L AS C) (00691)
JUN , 1979											
19....	--	75	10	--	.00	--	--	--	--	--	--
JUL											
12....	--	--	--	--	--	--	--	--	--	--	--
17....	7	77	5	.1	.00	12	--	--	--	--	--
AUG											
22....	--	72	2	--	--	--	--	--	--	--	--
22....	--	75	20	--	.00	--	--	--	--	--	--
SEP											
04....	--	--	--	--	--	--	--	--	--	--	--
21....	10	82	10	.0	.00	<10	--	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--	--
OCT											
24....	--	69	10	--	--	--	--	--	--	--	--
NOV											
15....	--	68	10	--	--	--	--	--	--	--	--
DEC											
13....	7	73	7	.0	--	<10	--	--	--	--	--
JAN , 1980											
22....	--	67	10	--	--	--	--	--	--	--	--
FEB											
19....	--	55	30	--	--	--	--	--	--	--	--
MAR											
25....	--	63	10	--	--	--	--	--	--	--	--



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
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PROCESS DATE 07/01/80  
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WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F (00950)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)
JUN , 1979											
19...	--	10	--	--	--	--	--	--	.4	10	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	20	11	0	--	K320	2	--	520	.4	10	0
AUG											
22...	--	6.3	--	--	--	--	--	--	.2	10	--
22...	--	12	--	--	--	--	--	--	.4	20	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	15	11	10	--	K130	2	--	130	.4	<10	0
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	14	--	--	--	--	--	--	.4	50	--
NOV											
15...	--	10	--	--	--	--	--	--	.3	120	--
DEC											
13...	12	10	0	--	>800	0	--	250	.4	<10	0
JAN , 1980											
22...	--	11	--	--	--	--	--	--	.4	10	--
FEB											
19...	--	10	--	--	--	--	--	--	.3	70	--
MAR											
25...	--	10	--	--	--	--	--	--	.0	<10	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306058 - WILLOW CREEK NEAR RIO BLANCO, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS RETA, OIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979										
19...	2.1	--	15	140	945	350	--	--	--	--
JUL										
12...	--	--	--	--	--	--	--	--	--	--
17...	2.4	1	14	130	929	390	--	--	--	--
AUG										
22...	1.2	--	17	120	950	390	--	--	--	--
22...	2.5	--	18	130	950	390	--	--	--	--
SEP										
04...	--	--	--	--	--	--	--	--	--	--
21...	2.1	1	19	140	3600	410	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--
OCT										
24...	2.4	--	15	110	876	330	--	--	--	--
NOV										
15...	2.0	--	16	110	845	300	--	--	--	--
DEC										
13...	1.5	1	17	120	902	330	--	--	--	--
JAN , 1980										
22...	1.5	--	16	120	853	310	--	--	--	--
FEH										
19...	5.6	--	14	92	699	240	--	--	--	--
MAR										
25...	1.3	--	14	110	808	300	--	--	--	--

PROCESS DATE IS 07-02-80

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39510209306061  
LONGITUDEPICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM  
DRAINAGE AREA 309.00 DATUM 6214.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

PH (STANDARD UNITS), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	MEAN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
				MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.4	8.2	8.2	---	---	---	---	---	---	8.3	8.1	8.1	---	---	---
2	8.4	8.1	8.2	---	---	---	---	---	---	8.3	8.2	8.2	---	---	---
3	8.4	8.1	8.2	---	---	---	---	---	---	8.3	1.0	6.2	---	---	---
4	8.4	8.1	8.2	---	---	---	---	---	---	1.0	1.0	1.0	8.4	8.3	8.3
5	8.4	8.1	8.2	---	---	---	---	---	---	8.4	1.0	4.4	8.3	8.3	8.3
6	8.4	8.1	8.2	---	---	---	---	---	---	8.4	8.3	8.4	8.4	8.3	8.3
7	.0	8.1	.0	---	---	---	---	---	---	8.4	8.3	8.4	8.4	8.3	8.3
8	8.4	8.1	8.2	---	---	---	---	---	---	9.6	1.0	8.3	8.4	1.1	8.0
9	8.4	8.1	8.2	---	---	---	---	---	---	9.5	1.0	2.1	8.3	8.3	8.3
10	8.4	8.1	8.2	---	---	---	---	---	---	9.7	1.0	3.6	8.3	---	---
11	8.4	8.1	8.2	---	---	---	---	---	---	9.6	1.0	7.4	8.3	---	---
12	8.4	8.1	8.2	---	---	---	---	---	---	8.4	8.2	8.3	8.3	8.2	8.2
13	8.4	8.1	8.2	---	---	---	---	---	---	8.3	8.2	8.2	8.2	8.1	8.2
14	8.3	8.1	8.2	---	---	---	---	---	---	8.3	8.2	8.2	8.4	8.2	8.3
15	8.3	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.4	8.2	8.3	8.4	8.4	8.4
16	8.3	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.5	8.3	8.3	8.5	8.4	8.4
17	8.3	8.0	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.4	5.0	8.2	8.5	8.5	8.5
18	8.2	8.0	8.1	8.2	8.1	8.2	8.2	8.1	8.2	8.5	8.3	8.4	8.5	8.5	8.5
19	8.3	8.0	8.1	8.3	8.2	8.2	8.2	8.2	8.2	8.5	8.3	8.4	8.5	8.5	8.5
20	8.3	8.0	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.4	8.3	8.4	8.5	8.5	8.5
21	8.2	8.1	8.2	8.3	8.2	8.2	8.2	8.2	8.2	---	---	---	8.5	8.5	8.5
22	8.3	8.1	8.2	8.2	8.2	8.2	8.2	6.5	8.2	---	---	---	8.5	8.5	8.5
23	8.2	8.1	8.2	8.2	8.2	8.2	8.2	8.2	8.2	---	---	---	8.5	8.4	8.5
24	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	---	---	---	8.5	8.4	8.5
25	---	---	---	8.2	8.2	8.2	8.2	8.2	8.2	---	---	---	8.5	8.5	8.5
26	---	---	---	8.2	8.2	8.2	8.2	8.2	8.2	---	---	---	8.5	8.5	8.5
27	---	---	---	8.3	7.0	8.2	---	---	---	---	---	---	8.6	8.4	8.5
28	---	---	---	8.3	6.8	8.2	---	---	---	---	---	---	8.5	8.5	8.5
29	---	---	---	8.2	8.1	8.2	---	---	---	---	---	---	8.5	8.5	8.5
30	---	---	---	8.2	8.1	8.1	---	---	---	---	---	---	8.5	8.5	8.5
31	---	---	---	---	---	---	---	---	---	---	---	---	8.6	---	---
MONTH	8.4	8.0	7.8	8.3	6.5	8.2	9.7	1.0	7.0	8.6	1.1	8.4	8.6	1.1	8.4

SOURCE AGENCY USGS  
STATE 08 COUNTY 103

PROVISIONAL DATA

DAY	FEBRUARY					MARCH					APRIL					MAY				
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN		
1	8.5	8.5	8.5	8.4	8.3	8.3	8.4	8.3	8.3	8.1	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3		
2	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3		
3	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3	8.3	8.1	8.1	8.1	8.3	8.3	8.3	8.4	8.3	8.3		
4	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3	8.3	8.1	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3		
5	8.5	8.5	8.5	8.3	8.3	8.3	8.3	8.3	8.3	8.2	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3		
6	8.5	8.5	8.5	8.4	8.3	8.3	8.4	8.3	8.3	8.2	8.1	8.1	8.3	8.3	8.3	8.3	8.3	8.3		
7	8.6	8.5	8.5	8.4	8.3	8.3	8.4	8.3	8.3	8.2	8.1	8.2	8.3	8.3	8.2	8.3	8.3	8.3		
8	8.5	8.5	8.5	8.4	8.3	8.3	8.4	8.3	8.3	8.2	8.2	8.2	8.3	8.3	8.2	8.3	8.3	8.3		
9	8.5	8.4	8.4	8.4	8.3	8.4	8.4	8.3	8.4	8.0	8.2	8.0	8.3	8.3	8.2	8.3	8.3	8.3		
10	8.5	8.4	8.4	8.4	8.3	8.4	8.4	8.3	8.4	8.2	8.2	8.2	8.3	8.3	8.2	8.3	8.3	8.3		
11	8.5	8.4	8.4	8.4	8.3	8.4	8.4	8.3	8.4	8.3	8.2	8.2	8.3	8.3	8.2	8.3	8.3	8.3		
12	8.5	8.4	8.5	8.4	8.3	8.4	8.4	8.3	8.4	8.3	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3		
13	8.6	8.5	8.5	8.4	8.3	8.4	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3		
14	8.5	8.5	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3		
15	8.5	8.4	8.5	8.4	8.4	8.4	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3		
16	---	---	---	8.5	8.4	8.4	8.5	8.4	8.4	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.3		
17	---	---	---	8.4	6.6	8.3	8.4	6.6	8.3	8.5	8.3	8.3	8.4	8.3	8.4	8.3	8.3	8.3		
18	---	---	---	8.3	8.3	8.3	8.3	8.3	8.3	8.4	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.3		
19	8.4	8.3	8.4	8.3	8.3	8.3	8.3	8.3	8.3	8.4	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.3		
20	8.4	8.2	8.3	8.3	8.3	8.3	8.3	8.3	8.3	8.4	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.3		
21	8.3	8.2	8.2	8.3	8.2	8.2	8.3	8.2	8.3	8.4	8.2	8.2	8.3	8.3	8.3	8.3	8.3	8.3		
22	8.3	8.2	8.3	8.2	8.2	8.2	8.2	8.2	8.2	8.3	8.0	8.0	8.2	8.3	8.2	8.3	8.3	8.3		
23	8.3	8.3	8.3	8.2	8.1	8.2	8.2	8.1	8.2	8.3	1.2	1.2	7.7	8.3	8.2	8.3	8.3	8.3		
24	8.4	8.3	8.3	8.2	8.2	8.2	8.2	8.1	8.1	8.3	8.2	8.2	8.3	8.3	8.2	8.3	8.3	8.3		
25	8.4	8.2	8.3	8.4	8.1	8.3	8.0	8.1	8.0	8.4	8.2	8.2	8.3	8.3	8.2	8.3	8.3	8.3		
26	8.4	8.1	8.3	8.1	8.0	8.1	8.1	8.0	8.1	8.4	8.3	8.3	8.3	8.3	8.2	8.3	8.3	8.3		
27	8.4	8.3	8.3	8.1	8.1	8.1	8.1	8.1	8.1	8.4	8.3	8.3	8.4	8.3	8.2	8.3	8.3	8.3		
28	8.3	8.3	8.3	8.2	8.1	8.1	8.2	8.1	8.1	8.4	8.3	8.3	8.4	8.3	8.2	8.3	8.3	8.3		
29	8.3	8.2	8.3	8.1	8.1	8.1	8.1	8.1	8.1	8.4	8.3	8.3	8.4	8.3	8.2	8.3	8.3	8.3		
30	---	---	---	8.1	8.1	8.1	8.1	8.1	8.1	8.4	8.3	8.3	8.4	8.3	8.2	8.3	8.3	8.3		
31	---	---	---	8.2	8.1	8.1	8.2	8.1	8.1	8.4	8.3	8.3	8.4	8.3	8.2	8.3	8.3	8.3		
MONTH	8.6	8.1	8.4	8.5	6.6	8.0	8.5	6.6	8.0	8.5	1.2	7.9	8.4	8.2	8.2	8.3	8.2	8.2		

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

PROCESS DATE IS 07-02-80

STATION NUMBER  
LATITUDE 39510209306061  
LONGITUDE 1081530PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO.  
DRAINAGE AREA 309.00 DATUM 6214.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER						NOVEMBER						DECEMBER						JANUARY					
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN						
1	11.8	7.3	8.9	---	---	---	10.9	10.6	10.7	---	---	---	---	---	---	---	---	---						
2	12.1	7.1	9.0	---	---	---	10.8	10.6	10.7	---	---	---	---	---	---	---	---	---						
3	11.9	7.2	8.9	---	---	---	10.9	4.7	8.8	---	---	---	---	---	---	---	---	---						
4	12.0	.1	8.8	---	---	---	4.7	3.4	3.9	11.0	9.7	10.1	11.0	10.5	10.9	10.9	10.5	10.9						
5	12.1	7.2	9.1	---	---	---	10.4	3.3	6.4	---	---	---	---	---	---	---	---	---						
6	12.2	7.0	9.0	---	---	---	10.9	9.7	10.3	---	---	---	---	---	---	---	---	---						
7	.0	7.0	.0	---	---	---	10.7	9.5	10.1	---	---	---	---	---	---	---	---	---						
8	12.1	7.1	8.9	---	---	---	9.8	7.7	8.6	---	---	---	---	---	---	---	---	---						
9	12.2	7.2	9.0	---	---	---	10.9	8.5	10.0	---	---	---	---	---	---	---	---	---						
10	12.1	7.3	9.0	---	---	---	10.5	8.3	9.8	---	---	---	---	---	---	---	---	---						
11	11.7	7.2	8.9	---	---	---	11.1	4.8	9.8	---	---	---	---	---	---	---	---	---						
12	12.2	7.2	9.1	---	---	---	11.0	10.6	10.8	---	---	---	---	---	---	---	---	---						
13	12.1	7.0	8.9	---	---	---	11.0	10.7	10.9	---	---	---	---	---	---	---	---	---						
14	11.6	7.0	8.7	---	---	---	11.1	10.8	10.9	---	---	---	---	---	---	---	---	---						
15	12.0	6.7	8.7	10.8	8.8	9.7	11.2	11.0	11.1	10.9	10.0	10.5	10.9	10.0	10.5	10.2	10.0	10.5						
16	11.7	6.6	8.4	10.6	8.6	9.6	11.3	10.9	11.1	---	---	---	---	---	---	---	---	---						
17	11.2	6.6	8.3	10.5	8.5	9.4	11.4	5.2	10.9	11.0	9.9	10.5	11.0	10.2	10.5	10.5	10.9	10.5						
18	11.0	6.6	8.0	9.3	8.6	8.8	11.4	10.7	11.0	10.8	10.0	10.4	10.8	10.0	10.4	10.4	10.0	10.4						
19	11.3	6.5	7.9	10.2	9.1	9.6	11.3	10.7	11.0	11.6	10.7	11.2	11.6	10.7	11.2	11.2	10.7	11.2						
20	8.4	6.5	7.6	10.5	9.1	9.8	11.2	10.4	10.8	12.0	10.9	11.4	12.0	10.9	11.4	11.4	10.9	11.4						
21	9.8	7.9	8.5	10.9	9.4	10.1	---	---	---	---	---	---	---	---	---	---	---	---						
22	10.1	7.9	8.7	10.7	6.4	9.8	---	---	---	---	---	---	---	---	---	---	---	---						
23	9.8	7.6	8.6	10.5	9.8	10.1	---	---	---	---	---	---	---	---	---	---	---	---						
24	9.4	7.9	8.6	10.6	9.3	9.9	---	---	---	---	---	---	---	---	---	---	---	---						
25	---	---	---	10.2	9.3	9.7	---	---	---	---	---	---	---	---	---	---	---	---						
26	---	---	---	10.1	9.4	9.7	---	---	---	---	---	---	---	---	---	---	---	---						
27	---	---	---	10.9	6.6	10.3	---	---	---	---	---	---	---	---	---	---	---	---						
28	---	---	---	10.8	6.5	10.4	---	---	---	---	---	---	---	---	---	---	---	---						
29	---	---	---	10.8	10.2	10.5	---	---	---	---	---	---	---	---	---	---	---	---						
30	---	---	---	10.7	10.3	10.5	---	---	---	---	---	---	---	---	---	---	---	---						
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---						
MONTH	12.2	.1	8.3	10.9	6.4	9.9	11.4	3.3	9.9	13.2	1.4	10.7	---	---	---	---	---	---						



## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39510209306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM  
LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

OXYGEN, DISSOLVED (DO), MG/L, WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY						APRIL						MAY
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN		
1	11.2	10.5	11.0	11.0	9.3	10.2	10.6	8.0	9.5	10.6	9.7	10.2	
2	11.2	10.2	10.7	11.4	10.1	10.7	10.8	9.2	9.9	11.0	9.5	10.3	
3	10.7	9.6	10.2	10.7	9.8	10.3	10.8	8.9	9.8	11.1	9.7	10.3	
4	10.5	9.7	10.1	10.7	9.6	10.2	10.9	8.0	9.5	10.9	9.6	10.2	
5	11.2	10.1	10.7	11.0	9.7	10.4	10.3	8.0	9.3	10.8	9.5	10.1	
6	10.9	9.9	10.5	10.9	10.1	10.5	10.3	8.7	9.4	10.7	9.4	10.1	
7	10.7	10.0	10.3	10.9	9.4	10.3	10.7	9.0	9.8	10.3	9.0	9.9	
8	11.2	10.4	11.0	11.0	9.4	10.2	11.1	7.8	9.6	---	---	---	
9	11.3	10.7	11.1	11.1	9.5	10.2	.0	7.5	4180.0	---	---	---	
10	11.2	10.7	11.0	11.0	8.7	9.9	9.7	8.4	9.0	---	---	---	
11	11.1	10.6	10.9	10.7	9.2	10.0	10.1	8.7	9.4	---	---	---	
12	11.1	10.2	10.8	10.6	9.4	9.9	10.6	8.1	9.4	---	---	---	
13	10.8	9.6	10.3	11.0	8.9	10.0	10.7	7.6	9.2	---	---	---	
14	10.0	8.8	9.5	10.8	8.3	9.6	10.3	7.1	8.8	---	---	---	
15	9.5	8.7	9.1	10.3	8.5	9.4	9.8	7.6	8.6	---	---	---	
16	---	---	---	10.4	8.9	9.7	9.8	7.3	8.5	---	---	---	
17	---	---	---	10.7	8.8	10.0	9.9	7.8	8.8	---	---	---	
18	---	---	---	11.2	8.7	10.0	10.3	7.8	9.0	---	---	---	
19	8.3	7.6	7.9	10.6	8.5	9.6	---	---	---	---	---	---	
20	9.8	8.1	8.8	10.8	8.4	9.6	---	---	---	---	---	---	
21	10.3	9.5	9.8	10.5	8.2	9.4	---	---	---	---	---	---	
22	10.5	9.6	10.1	10.1	9.4	9.7	9.1	8.6	8.9	---	---	---	
23	11.0	9.9	10.5	10.6	8.8	9.7	9.9	5.6	8.9	---	---	---	
24	11.4	9.7	10.6	10.5	8.4	9.5	9.4	6.4	8.7	---	---	---	
25	11.5	4.0	9.1	.0	9.3	4180.0	---	---	---	---	---	---	
26	11.5	4.9	9.0	11.4	8.9	10.2	10.3	8.4	9.1	---	---	---	
27	11.5	9.3	10.5	11.3	8.9	10.1	10.6	8.5	9.5	---	---	---	
28	11.3	9.3	10.3	11.0	9.6	10.2	10.6	9.1	9.8	---	---	---	
29	10.6	9.9	10.3	11.0	9.1	10.1	10.3	9.2	9.8	---	---	---	
30	---	---	---	10.5	9.3	10.0	10.3	9.7	10.0	---	---	---	
31	---	---	---	11.0	8.8	10.1	---	---	---	---	---	---	
MONTH	11.5	4.0	10.2	11.4	8.2	145.0	11.1	5.6	170.0	11.1	9.0	10.2	

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 395102 LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	1550	1320	1510	1510	---	---	---	---	1350	1270	1310	---	---	---
2	1710	1560	1580	1580	---	---	---	---	1300	1210	1260	---	---	---
3	1830	1600	1640	1640	---	---	---	---	1270	14	822	---	---	---
4	1630	1580	1610	1610	---	---	---	---	104	26	46	1290	1270	1280
5	1590	1550	1570	1570	---	---	---	---	1290	4	598	1300	1270	1280
6	1590	1550	1570	1570	---	---	---	---	1290	1270	1280	1290	1270	1280
7	100000	1550	13900	13900	---	---	---	---	1290	662	1150	1320	1250	1290
8	1570	1540	1560	1560	---	---	---	---	576	172	305	1290	52	1220
9	1570	1550	1560	1560	---	---	---	---	338	298	318	1270	---	---
10	1560	1530	1550	1550	---	---	---	---	330	310	319	1250	---	---
11	1540	1470	1510	1510	---	---	---	---	1310	264	557	1350	---	---
12	1530	1490	1500	1500	---	---	---	---	1430	1300	1360	1270	---	---
13	1560	1520	1530	1530	---	---	---	---	1380	1300	1330	1260	1180	1220
14	1570	1550	1560	1560	---	---	---	---	1350	1270	1310	1210	1140	1180
15	1570	1540	1560	1560	1280	1250	1260	1260	1320	1240	1280	1240	1170	1210
16	1570	1530	1550	1550	1280	1250	1260	1260	1310	1250	1280	1260	1240	1250
17	1570	1540	1560	1560	1280	1250	1260	1260	1320	26	1230	1270	1240	1250
18	1570	1510	1550	1550	1260	1220	1240	1240	1320	1270	1300	1260	1240	1250
19	1540	1490	1520	1520	1240	1210	1230	1230	1350	1260	1300	1280	1240	1260
20	1570	1480	1510	1510	1240	1190	1220	1220	1320	1070	1270	1280	1260	1270
21	1530	1490	1510	1510	1260	1240	1250	1250	---	---	---	1300	1230	1270
22	1510	1450	1490	1490	1320	46	1060	1060	---	---	---	1270	1240	1260
23	1450	1430	1440	1440	1320	1210	1270	1270	---	---	---	1270	1240	1260
24	1440	1340	1410	1410	1270	1240	1250	1250	---	---	---	1310	1220	1260
25	---	---	---	---	1260	1230	1250	1250	---	---	---	1270	1250	1260
26	---	---	---	---	1260	1220	1240	1240	---	---	---	1260	1240	1250
27	---	---	---	---	1290	48	1200	1200	---	---	---	1320	1210	1260
28	---	---	---	---	1350	52	1250	1250	---	---	---	1240	1200	1220
29	---	---	---	---	1380	1280	1330	1330	---	---	---	1230	1200	1220
30	---	---	---	---	1360	1310	1330	1330	---	---	---	1290	1230	1250
31	---	---	---	---	---	---	---	---	---	---	---	1400	---	---
MONTH	100000	1320	2050	2050	1380	46	1240	1240	1430	4	981	1400	52	1250

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 395102

09306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	FEBRUARY						MARCH						APRIL						MAY					
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN			
1	1310	1180	1250	1260	1220	1240	1170	976	1070	790	764	778												
2	1250	1210	1240	1270	1230	1260	1190	1120	1160	794	758	775												
3	1250	1230	1240	1270	1210	1250	1210	1170	1190	772	738	756												
4	1250	1230	1240	1250	1210	1230	1170	1090	1140	766	734	747												
5	1290	1220	1250	1250	1220	1240	1140	1080	1110	748	712	733												
6	1250	1230	1240	1250	1210	1230	1100	1060	1080	736	698	722												
7	1240	1220	1230	1230	1210	1220	1100	1050	1070	698	52	610												
8	1340	1210	1270	1250	1220	1240	1140	1050	1090	---	---	---												
9	1390	1220	1320	1260	1240	1250	100000	1080	5250	---	---	---												
10	1370	1190	1290	1260	1220	1250	1130	1070	1110	---	---	---												
11	1340	1180	1260	1270	1230	1250	1090	1060	1070	---	---	---												
12	1330	1200	1260	1260	1230	1240	1110	1040	1070	---	---	---												
13	1260	1240	1250	1290	1220	1250	1110	1030	1070	---	---	---												
14	1250	1220	1240	1250	1180	1230	1110	1010	1060	---	---	---												
15	1250	1150	1210	1240	1170	1210	1170	1080	1120	---	---	---												
16	---	---	---	1220	1150	1190	1100	1050	1080	---	---	---												
17	---	---	---	1280	44	1150	1150	1010	1070	---	---	---												
18	---	---	---	1270	1230	1250	1060	938	1010	---	---	---												
19	988	798	885	1250	1190	1230	---	---	---	---	---	---												
20	1180	956	1080	1220	1100	1190	---	---	---	---	---	---												
21	1230	1190	1220	1140	1000	1100	---	---	---	---	---	---												
22	1240	1230	1240	1060	996	1040	820	664	762	---	---	---												
23	1240	1210	1220	1080	1020	1040	832	52	667	---	---	---												
24	1250	1220	1240	1100	1010	1060	844	52	709	---	---	---												
25	1310	1220	1260	100000	984	5130	---	---	---	---	---	---												
26	1280	1230	1250	1080	978	1030	870	748	847	---	---	---												
27	1260	1130	1210	1090	984	1040	878	844	861	---	---	---												
28	1240	1070	1170	1040	1000	1020	866	798	851	---	---	---												
29	1230	1100	1200	1060	990	1020	862	826	845	---	---	---												
30	---	---	---	1050	952	1000	826	760	784	---	---	---												
31	---	---	---	1040	950	994	---	---	---	---	---	---												
MONTH	1390	798	1220	100000	44	1290	100000	52	1160	794	52	732												

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39510209306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO. STREAM  
LONGITUDE 1061530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103

SOURCE AGENCY USGS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	16.5	8.0	11.5	11.5	---	---	---	---	5.0	0.0	---	---	---	---
2	15.5	8.0	11.5	11.5	---	---	---	---	5.0	0.0	---	---	---	---
3	15.0	7.5	11.0	11.0	---	---	---	---	15.5	5.5	---	---	---	---
4	15.0	6.5	10.5	10.5	---	---	---	---	20.5	17.5	---	---	---	---
5	15.5	7.0	11.0	11.0	---	---	---	---	22.0	13.0	---	---	---	---
6	15.5	7.0	11.0	11.0	---	---	---	---	5.0	2.5	---	---	---	---
7	100000.0	7.5	0.0	0.0	---	---	---	---	5.5	3.5	---	---	---	---
8	15.0	7.5	11.0	11.0	---	---	---	---	13.0	10.5	---	---	---	---
9	14.0	7.0	10.5	10.5	---	---	---	---	13.0	11.0	---	---	---	---
10	14.5	6.5	10.5	10.5	---	---	---	---	13.0	11.0	---	---	---	---
11	14.5	7.0	10.5	10.5	---	---	---	---	11.5	7.5	---	---	---	---
12	14.0	7.0	10.5	10.5	---	---	---	---	5.0	0.0	---	---	---	---
13	14.0	7.0	10.5	10.5	---	---	---	---	1.0	0.0	---	---	---	---
14	11.5	8.0	10.0	10.0	---	---	---	---	5.0	0.0	---	---	---	---
15	14.0	7.5	10.5	10.5	---	---	---	---	1.0	0.0	---	---	---	---
16	13.5	8.5	11.0	11.0	---	---	---	---	2.0	1.0	---	---	---	---
17	12.5	6.5	9.5	9.5	---	---	---	---	8.5	1.5	---	---	---	---
18	13.5	8.5	11.0	11.0	---	---	---	---	3.5	1.5	---	---	---	---
19	13.0	9.5	11.0	11.0	---	---	---	---	3.0	1.5	---	---	---	---
20	10.0	5.5	8.0	8.0	---	---	---	---	4.0	2.0	---	---	---	---
21	9.0	6.0	7.0	7.0	---	---	---	---	3.5	1.5	---	---	---	---
22	10.5	4.0	6.5	6.5	---	---	---	---	8.0	1.0	---	---	---	---
23	11.0	4.5	7.5	7.5	---	---	---	---	1.5	0.0	---	---	---	---
24	9.0	5.0	6.5	6.5	---	---	---	---	3.5	2.0	---	---	---	---
25	---	---	---	---	---	---	---	---	4.0	3.0	---	---	---	---
26	---	---	---	---	---	---	---	---	3.5	2.5	---	---	---	---
27	---	---	---	---	---	---	---	---	2.5	0.5	---	---	---	---
28	---	---	---	---	---	---	---	---	7.5	0.0	---	---	---	---
29	---	---	---	---	---	---	---	---	0.0	0.0	---	---	---	---
30	---	---	---	---	---	---	---	---	0.0	0.0	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH			100000.0	9.5	4.0	8.0	2.0	-0.5	22.0	-0.5	4.5	8.5	0.0	38464

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39510209306061 PICEANCE CREEK AB HUNTER C, NEAR RIO BLANCO, CO.  
LONGITUDE 1081530 DRAINAGE AREA 309.00 DATUM 6214.00 STATE 08 COUNTY 103STREAM  
6214.00

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY			MARCH			APRIL			MAY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2.5	.5	1.0	10.5	3.0	6.0	13.0	2.5	7.0	11.0	7.5	9.5
2	4.5	.5	2.5	6.5	1.0	3.5	7.0	3.0	5.0	12.5	6.5	9.5
3	6.5	2.5	4.5	6.5	3.0	4.5	12.0	2.0	6.5	11.5	6.5	9.5
4	7.0	2.5	4.5	8.5	3.0	5.5	15.0	4.0	9.0	12.0	7.0	10.0
5	5.0	.5	2.5	9.0	2.5	5.5	13.5	4.5	8.5	12.5	7.5	10.0
6	5.0	1.5	3.0	5.0	3.0	4.0	10.0	4.5	7.0	11.5	7.5	9.5
7	5.0	1.5	3.5	9.0	2.0	5.0	9.0	3.0	5.5	10.5	8.0	9.0
8	2.0	.5	1.0	9.0	2.0	5.5	13.5	.5	6.5	---	---	---
9	.5	.5	.5	8.0	1.5	5.0	100000.0	2.5	.0	---	---	---
10	.5	.5	.5	11.0	1.5	6.0	11.0	5.5	8.0	---	---	---
11	1.5	.5	.5	8.0	1.0	4.5	8.5	3.5	6.0	---	---	---
12	3.5	.5	1.5	8.5	2.0	4.5	12.5	1.5	6.5	---	---	---
13	6.5	1.0	3.5	10.0	.0	4.5	14.0	1.5	7.5	---	---	---
14	6.5	3.5	5.0	11.5	1.0	6.0	16.0	2.5	9.0	---	---	---
15	7.5	4.5	5.5	10.5	3.0	6.5	13.5	4.0	9.0	---	---	---
16	---	---	---	8.5	2.0	4.5	15.0	3.5	9.0	---	---	---
17	---	---	---	8.5	.5	3.5	15.0	3.5	9.0	---	---	---
18	---	---	---	11.0	.0	5.0	13.5	3.5	8.5	---	---	---
19	8.5	4.5	6.0	12.5	3.0	7.0	---	---	---	---	---	---
20	6.0	4.5	5.0	12.5	2.5	7.0	---	---	---	---	---	---
21	6.5	3.5	5.0	13.0	2.5	7.5	---	---	---	---	---	---
22	7.5	3.0	5.0	7.5	4.5	5.5	11.0	9.0	10.0	---	---	---
23	6.0	1.5	4.0	10.0	3.5	6.5	11.5	6.5	9.5	---	---	---
24	8.0	.5	4.0	12.0	3.5	7.5	10.5	8.0	9.0	---	---	---
25	14.0	.5	5.5	100000.0	3.0	.0	---	---	---	---	---	---
26	14.0	3.0	7.5	11.5	1.5	5.5	13.5	7.0	11.0	---	---	---
27	10.0	1.0	5.0	11.0	.0	5.5	14.0	5.0	9.5	---	---	---
28	9.0	1.5	5.0	8.0	3.0	5.5	12.0	6.0	9.0	---	---	---
29	6.5	3.5	5.0	10.5	3.0	6.0	12.5	7.0	10.0	---	---	---
30	---	---	---	8.0	2.5	4.5	10.5	7.0	9.0	---	---	---
31	---	---	---	9.5	2.0	5.0	---	---	---	---	---	---
MONTH	14.0	.5	3.5	100000.0	.0	5.0	100000.0	.5	8.0	12.5	6.5	9.5



WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	ARSENIC DIS- SOLVED (UG/L AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L AS HA) (01005)	BICAR- BONATE (MG/L AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L AS B) (01020)	BROMIDE DIS- SOLVED (MG/L AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	CAR- BONATE (MG/L AS C03) (00445)
JUN , 1979												
19...	520	--	.03	5	--	630	--	220	--	--	83	0
JUL												
12...	517	--	--	--	--	630	--	--	--	--	--	0
17...	520	10	.01	4	90	630	--	260	.1	<1	80	0
AUG												
22...	430	--	.00	2	--	530	--	200	--	--	72	0
SEP												
04...	--	--	--	--	--	540	--	--	--	--	--	--
21...	--	0	.01	2	80	--	--	180	.1	<1	71	--
27...	--	--	--	--	--	650	--	--	--	--	--	--
OCT												
24...	480	--	.00	3	--	--	--	200	--	--	72	--
NOV												
15...	430	--	.08	4	--	--	--	180	--	--	79	--
DEC												
12...	450	10	.05	2	90	--	--	170	.1	<1	82	--
JAN , 1980												
22...	450	--	.04	3	--	--	--	200	--	--	78	--
FEB												
19...	260	20	.14	3	200	--	--	170	.1	0	48	--
MAR												
25...	410	--	.06	2	--	--	--	150	--	--	70	--
APH												
24...	290	--	.00	3	--	--	--	140	--	--	55	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979											
19...	--	.03	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	--	.12	--	--	--	--	--	--	--	--	--
AUG											
22...	--	.03	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	--	.03	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	--
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
12...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
22...	--	--	--	--	--	--	--	--	--	--	--
FEB											
19...	--	--	--	--	--	--	--	--	--	--	--
MAR											
25...	--	--	--	--	--	--	--	--	--	--	--
APR											
24...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIÖE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979											
19...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	0
AUG											
22...	--	--	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	0
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	--	--	--	--	--	--	--	--	--	0
NOV											
15...	--	--	--	--	--	--	--	--	--	--	2
DEC											
12...	--	--	--	--	--	--	--	--	--	--	2
JAN , 1980											
22...	--	--	--	--	--	--	--	--	--	--	1
FEB											
19...	--	--	--	--	--	--	--	--	--	--	12
MAR											
25...	--	--	--	--	--	--	--	--	--	--	0
APH											
24...	--	--	--	--	--	--	--	--	--	--	3

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L AS C) (00691)
JUN , 1979											
19...	--	70	50	--	.00	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	9	72	100	1.6	.00	18	--	--	--	--	--
AUG											
22...	--	54	20	--	.00	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	10	60	20	.1	.00	<10	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	63	90	--	--	--	--	--	--	--	--
NOV											
15...	--	61	40	--	--	--	--	--	--	--	--
DEC											
12...	9	64	30	.0	--	<10	--	--	--	--	--
JAN , 1980											
22...	--	61	30	--	--	--	--	--	--	--	--
FEB											
19...	0	38	50	.0	.00	3	--	--	--	--	--
MAR											
25...	--	54	20	--	--	--	--	--	--	--	--
APR											
24...	--	35	5	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL (00940)	CHRD- MIUM, DIS- SOLVED (UG/L) AS CR (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUD- RIDE, DIS- SOLVED (MG/L) AS F (00950)	IRON, DIS- SOLVED (UG/L) AS FE (01046)	LEAD, DIS- SOLVED (UG/L) AS PB (01049)
JUN , 1979											
19...	--	13	--	--	--	--	--	--	.7	60	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
17...	18	14	0	--	136	0	--	620	.7	10	0
AUG											
22...	--	14	--	--	--	--	--	--	.7	10	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
21...	17	12	0	--	460	2	--	190	.8	<10	0
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
24...	--	15	--	--	--	--	--	--	.7	20	--
NOV											
15...	--	11	--	--	--	--	--	--	.6	20	--
DEC											
12...	20	11	0	--	--	0	--	560	.8	10	0
JAN , 1980											
22...	--	12	--	--	--	--	--	--	.7	<10	--
FEB											
19...	110	12	0	--	--	1	--	--	.5	150	0
MAR											
25...	--	10	--	--	--	--	--	--	.0	20	--
APR											
24...	--	11	--	--	--	--	--	--	.5	50	--



WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSL- TUENTS, DIS- SOLVED (MG/L AS SR) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS S04) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979											
19....	3.2	--	16	170	948	--	280	--	--	--	--
JUL											
12....	--	--	--	--	--	--	--	--	--	--	--
17....	3.7	1	16	180	991	2500	310	--	<3	<.3	<5.7
AUG											
22....	2.7	--	18	120	806	--	260	--	--	--	--
SEP											
04....	--	--	--	--	--	--	--	--	--	--	--
21....	3.0	0	16	140	--	2200	280	--	<3	<.3	<5.3
27....	--	--	--	--	--	--	--	--	--	--	--
OCT											
24....	3.5	--	16	140	870	--	270	--	--	--	--
NOV											
15....	3.0	--	16	130	821	--	260	--	--	--	--
DEC											
12....	2.5	1	18	140	866	2300	270	--	<3	<2.1	<7.5
JAN , 1980											
22....	2.5	--	16	130	844	--	270	--	--	--	--
FEB											
19....	8.0	0	16	76	510	1300	150	--	0	--	--
MAR											
25....	2.3	--	14	120	770	--	250	--	--	--	--
APR											
24....	3.0	--	91	91	625	--	160	--	--	--	--

PROCESS DATE IS 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 395516 LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN.	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1							---	---	---	1110	1080	1090
2							---	---	---	1380	1100	1190
3							---	---	---	---	---	---
4							---	---	---	1400	1370	1390
5							---	---	---	1380	1340	1370
6							---	---	---	1370	1310	1360
7							1380	1340	1360	1400	1300	1360
8							1380	1350	1370	1430	1330	1400
9							1380	1340	1370	1430	1420	1420
10							1380	1350	1370	1610	1560	1590
11							1390	1330	1350	1660	1500	1600
12							1570	1400	1490	1580	1470	1530
13							1510	1450	1470	1580	1490	1550
14							1480	1400	1450	1530	1440	1500
15							1430	1370	1400	1600	1490	1550
16							1400	1320	1370	1630	1570	1600
17							1410	1330	1370	1630	1590	1610
18							1420	1340	1370	1600	1580	1590
19							1460	1350	1400	1590	1560	1580
20							1400	1340	1370	1600	1550	1590
21							1390	1350	1370	1600	1540	1570
22							1400	1340	1380	1570	1500	1530
23							1410	1380	1400	1610	1470	1530
24							1410	1360	1380	1540	1480	1510
25							1420	1370	1390	1530	1450	1510
26							1420	1360	1390	1510	1350	1480
27							1450	1380	1400	1510	1380	1460
28							1400	1370	1390	1420	1380	1410
29							1430	936	1240	1470	1380	1420
30							1060	958	1020	1500	1430	1460
31							1180	1010	1110	1560	1370	1460
MONTH							1570	936	1360	1660	1080	1470

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39551609306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO.  
LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

SOURCE AGENCY USGS

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	FEBRUARY			MARCH			APRIL			MAY		
		MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX
1	1390	879	1300	1410	1350	1390	1410	1350	1390	1410			
2	1500	878	1150	1410	1360	1390	1410	1360	1390	1410			
3	1490	1460	1480	1400	1350	1380	1400	1350	1380	1400			
4	1470	1440	1460	1390	1330	1360	1390	1330	1360	1390			
5	1580	1430	1470	1390	1320	1370	1390	1320	1370	1390			
6	1480	1440	1460	1360	1310	1340	1360	1310	1340	1360			
7	1440	1410	1430	1360	1290	1330	1360	1290	1330	1360			
8	1520	1420	1460	1400	1330	1360	1400	1330	1360	1400			
9	1590	1400	1500	1400	1350	1380	1400	1350	1380	1400			
10	1520	1270	1430	1410	1350	1380	1410	1350	1380	1410			
11	1450	1250	1350	1400	1340	1370	1400	1340	1370	1400			
12	1460	1230	1340	1380	1330	1350	1380	1330	1350	1380			
13	1410	1200	1300	1350	1300	1340	1350	1300	1340	1350			
14	1400	1380	1390	---	---	---	---	---	---	---			
15	1400	1200	1340	---	---	---	---	---	---	---			
16	1340	1160	1250	---	---	---	---	---	---	---			
17	1360	1080	1260	---	---	---	---	---	---	---			
18	1300	558	1030	---	---	---	---	---	---	---			
19	1040	666	864	---	---	---	---	---	---	---			
20	1040	683	877	---	---	---	---	---	---	---			
21	1420	667	955	---	---	---	---	---	---	---			
22	1430	1380	1410	---	---	---	---	---	---	---			
23	1420	1370	1390	---	---	---	---	---	---	---			
24	1460	1380	1410	---	---	---	---	---	---	---			
25	1490	1400	1440	---	---	---	---	---	---	---			
26	1470	1380	1420	---	---	---	---	---	---	---			
27	1450	1060	1350	---	---	---	---	---	---	---			
28	1410	1080	1270	---	---	---	---	---	---	---			
29	1380	1150	1290	---	---	---	---	---	---	---			
30	---	---	---	---	---	---	---	---	---	---			
31	---	---	---	---	---	---	---	---	---	---			
MONTH	1590	558	1310	1410	1290	1360	1410	1290	1360	1410			

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 39551609306200 PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO.  
LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

STREAM

SOURCE AGENCY USGS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1										.5	.5	.5
2										3.5	.0	.5
3										---	---	---
4										4.5	2.5	4.0
5										3.5	.5	2.0
6										---	---	---
7										3.0	.5	1.0
8										2.0	.0	1.0
9										4.0	.5	2.5
10										4.5	2.0	3.5
11										4.5	-0.5	2.0
12										---	---	---
13										3.0	-0.5	-0.5
14										5.5	2.5	4.0
15										4.5	4.0	4.0
16										5.5	3.5	4.5
17										6.0	4.0	5.0
18										6.0	3.0	4.5
19										5.5	3.5	4.5
20										3.0	1.0	2.0
21										3.5	.5	1.5
22										---	---	---
23										3.5	.5	1.5
24										2.0	.5	1.5
25										4.0	.5	1.5
26										5.5	.5	2.5
27										---	---	---
28										2.5	.5	1.0
29										.5	.5	.5
30										3.5	.5	1.5
31										2.5	.0	1.0
MONTH										6.0	-0.5	2.0

PROCESS DATE IS 07-02-80

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 395516

09306200 PICEANCE CREEK BL RYAN GULCH, NM RIO BLANCO, CO. STREAM  
LONGITUDE 1081749 DRAINAGE AREA 506.00 DATUM 6070.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	.5	.5		.5		9.5	3.0	6.0						
2	3.0	.5		1.5		6.0	2.0	4.5						
3	6.0	1.5		3.5		6.5	3.5	5.0						
4	6.5	3.5		4.5		8.0	3.5	5.5						
5	4.5	.0		2.0		8.0	3.0	5.5						
6	4.0	1.0		2.5		6.0	4.0	4.5						
7	4.5	1.5		3.0		7.5	2.0	5.0						
8	1.5	.5		.5		8.5	3.0	6.0						
9	1.0	.5		.5		8.5	2.0	5.5						
10	.5	.5		.5		10.0	2.0	6.0						
11	.5	.5		.5		7.0	2.5	5.0						
12	.5	.5		.5		8.0	3.0	5.5						
13	4.5	.0		1.0		4.5	.5	2.0						
14	5.5	2.5		4.0		---	---	---						
15	6.5	4.0		5.0		---	---	---						
16	7.5	3.5		5.0		---	---	---						
17	6.5	3.0		4.5		---	---	---						
18	7.0	2.0		4.0		---	---	---						
19	7.0	2.0		4.0		---	---	---						
20	5.5	3.5		4.5		---	---	---						
21	6.0	3.5		4.5		---	---	---						
22	7.0	3.5		5.0		---	---	---						
23	5.5	2.0		4.0		---	---	---						
24	7.0	.0		3.5		---	---	---						
25	7.0	.0		3.5		---	---	---						
26	8.5	1.0		4.5		---	---	---						
27	9.0	1.5		5.5		---	---	---						
28	8.5	2.0		5.5		---	---	---						
29	6.0	4.0		5.5		---	---	---						
30	---	---		---		---	---	---						
31	---	---		---		---	---	---						
MONTH	9.0	.0		3.0		10.0	.5	5.0						



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
093306200 - PICEANCE CREEK BL RYAN GULCH, NR RIO BLANCO, CO. DISTRICT CODE 08

PROCESS DATE 07/01/80

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L) AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00604)	ARSENIC DIS- SOLVED (UG/L) AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L) AS BA) (01005)	BICAR- BONATE (MG/L) AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L) AS B) (01020)	BROMIDE DIS- SOLVED (MG/L) AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L) AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	CAR- BONATE (MG/L) AS C03) (00445)
JUN , 1979												
25...	530	--	--	7	100	650	--	250	--	<1	69	0
JUL												
12...	640	--	--	--	--	780	--	--	--	--	--	0
16...	660	--	--	3	0	810	--	200	--	0	90	0
AUG												
21...	470	--	--	3	90	570	--	200	--	<1	73	0
SEP												
04...	--	--	--	--	--	560	--	--	--	--	--	--
18...	--	--	--	3	80	--	--	230	--	<1	74	0
27...	--	--	--	--	--	760	--	--	--	--	--	--
OCT												
22...	570	--	--	3	80	--	--	250	--	<1	85	--
NOV												
15...	450	--	--	3	70	--	--	180	--	1	78	--
DEC												
18...	490	--	--	2	80	--	--	170	--	<1	82	--
JAN , 1980												
23...	480	--	--	2	70	--	--	180	--	<1	85	--
FEB												
19...	350	--	--	3	200	--	--	190	--	0	36	--
MAR												
26...	430	--	--	2	70	--	--	160	--	<1	74	--
APR												
00...	210	--	--	2	60	--	--	100	--	<1	37	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, OIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979											
25....	--	.03	--	--	--	--	--	--	--	--	--
JUL											
12....	--	--	--	--	--	--	--	--	--	--	--
16....	--	.15	--	--	--	--	--	--	--	--	--
AUG											
21....	--	.03	--	--	--	--	--	--	--	--	--
SEP											
04....	--	--	--	--	--	--	--	--	--	--	--
18....	--	.03	--	--	--	--	--	--	--	--	--
27....	--	--	--	--	--	--	--	--	--	--	--
OCT											
22....	--	.09	--	--	--	--	--	--	--	--	--
NOV											
15....	--	.03	--	--	--	--	--	--	--	--	--
DEC											
18....	--	.09	--	--	--	--	--	--	--	--	--
JAN , 1980											
23....	--	.15	--	--	--	--	--	--	--	--	--
FEB											
19....	--	.34	--	--	--	--	--	--	--	--	--
MAR											
26....	--	.09	--	--	--	--	--	--	--	--	--
APR											
00....	--	.00	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	--	--	--	--	--	--	--	--	--	--	1
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	1
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
22...	--	--	--	--	--	--	--	--	--	--	0
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
18...	--	--	--	--	--	--	--	--	--	--	0
JAN , 1980											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
19...	--	--	--	--	--	--	--	--	--	--	4
MAR											
26...	--	--	--	--	--	--	--	--	--	--	--
APR											
00...	--	--	--	--	--	--	--	--	--	--	--

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L) AS LI (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L) AS MG (00925)	MANGA- NESE, DIS- SOLVED (UG/L) AS MN (01056)	MERCURY DIS- SOLVED (UG/L) AS HG (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L) AS MO (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L) AS NO3 (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L) AS NO2 (71856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG ORGANIC DIS- SOLVED (MG/L) AS C (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L) AS C (00691)
JUN , 1979											
25...	10	95	30	.0	.00	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
16...	8	120	90	.0	.00	--	--	--	--	--	--
AUG											
21...	20	76	10	.0	.00	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
18...	20	85	10	.0	.00	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
22...	20	91	70	.0	.00	--	--	--	--	--	--
NOV											
15...	20	72	20	.0	.10	--	--	--	--	--	--
DEC											
18...	20	73	20	.0	.00	--	--	--	--	--	--
JAN , 1980											
23...	20	80	30	.0	.00	--	--	--	--	--	--
FEB											
19...	10	42	60	.0	.00	--	--	--	--	--	--
MAR											
26...	20	65	20	.0	.00	--	--	--	--	--	--
APR											
00...	20	28	10	.0	.10	--	--	--	--	--	--

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCL FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
JUN , 1979											
25....	--	16	--	--	--	0	--	--	.7	40	0
JUL											
12....	--	--	--	--	--	--	--	--	--	--	--
16....	--	19	--	--	--	2	--	--	.8	20	0
AUG											
21....	--	14	--	--	--	2	--	--	.6	10	0
SEP											
04....	--	--	--	--	--	--	--	--	--	--	--
18....	--	13	--	--	--	1	--	--	.8	<10	1
27....	--	--	--	--	--	--	--	--	--	--	--
OCT											
22....	--	17	--	--	--	0	--	--	.8	30	0
NOV											
15....	--	10	--	--	--	0	--	--	.8	10	0
DEC											
18....	--	12	--	--	--	0	--	--	.6	40	0
JAN , 1980											
23....	--	11	--	--	--	0	--	--	.6	20	0
FEB											
19....	--	21	--	--	--	4	--	--	.6	130	0
MAR											
26....	--	13	--	--	--	2	--	--	.2	20	0
APR											
00....	--	9.0	--	--	--	0	--	--	.5	10	0



WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SI02) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979											
25....	4.0	1	17	180	1140	3500	430	--	<3	--	--
JUL											
12....	--	--	--	--	--	--	--	--	--	--	--
16....	4.0	0	20	260	1450	4000	530	--	20	--	--
AUG											
21....	3.1	1	9.0	160	961	830	340	--	<3	--	--
SEP											
04....	--	--	--	--	--	--	--	--	--	--	--
18....	3.0	1	18	180	1070	3400	420	--	<3	--	--
27....	--	--	--	--	--	--	--	--	--	--	--
OCT											
22....	4.8	1	19	200	1220	3200	460	--	6	--	--
NOV											
15....	3.1	1	16	150	936	2800	330	--	<3	--	--
DEC											
18....	2.8	1	18	150	989	3100	350	--	4	--	--
JAN , 1980											
23....	2.8	1	18	160	1010	3300	360	--	<3	--	--
FEB											
19....	5.5	0	15	150	654	1400	170	--	10	--	--
MAR											
26....	2.4	1	15	140	893	2700	320	--	4	--	--
APR											
00....	2.8	1	10	78	425	1000	130	--	<3	--	--

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 40043909306222 PICEANCE CREEK AT WHITE RIVER, CO.  
LONGITUDE 1081408 DRAINAGE AREASTREAM  
SOURCE AGENCY USGS  
5730.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHUS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	2700	---	---	1470	---	---	2150	---	---	---	---	---
2	2580	---	---	1430	---	---	1960	---	---	---	---	---
3	2560	---	---	1290	---	---	1810	1620	1730	---	---	---
4	2500	---	---	---	---	---	1670	---	---	---	---	---
5	2480	---	---	1350	---	---	1640	---	---	---	---	---
6	2560	---	---	1340	1210	1270	1730	1600	1670	---	---	---
7	2590	---	---	1320	---	---	1740	1660	1710	517	---	---
8	2610	---	---	1280	---	---	1710	---	---	102	---	---
9	2550	2470	2500	1290	---	---	1730	---	---	1650	1600	752
10	2520	2440	2480	1280	---	---	1840	---	---	1760	---	---
11	2500	2400	2450	1210	---	---	1750	1660	1700	1880	---	---
12	2440	---	---	---	---	---	2320	---	---	---	---	---
13	2400	---	---	---	---	---	1890	---	---	1590	---	---
14	2320	---	---	1280	1160	1220	---	---	---	1720	---	---
15	2360	---	---	1280	1150	1190	1890	---	---	1740	---	---
16	2290	---	---	1260	---	---	1860	---	---	1820	---	---
17	2180	2130	2160	1160	---	---	1800	---	---	1840	---	---
18	2250	---	---	1230	---	---	1850	---	---	1830	---	---
19	2190	---	---	1210	---	---	1800	---	---	---	---	---
20	2560	---	---	1170	1080	1110	1830	---	---	---	---	---
21	2120	1890	2020	1160	903	1100	1780	---	---	---	---	---
22	2030	1730	1850	1330	894	1040	---	---	---	---	---	---
23	1960	1790	1860	1330	---	---	1600	---	---	1900	---	---
24	1830	1720	1770	1170	883	1030	1620	---	---	1700	---	---
25	1700	1580	1640	1150	704	1070	1810	---	---	1650	---	---
26	1630	1550	1580	1130	633	803	1680	---	---	1640	---	---
27	1600	---	---	1060	392	996	1620	---	---	---	---	---
28	1610	1520	1560	1910	1060	1480	1610	---	---	1630	---	---
29	1570	1490	1540	2170	---	---	1900	---	---	1740	---	---
30	1490	1400	1430	2270	1910	2090	1890	---	---	1580	---	---
31	1490	---	---	---	---	---	---	---	---	1740	---	---
MONTH	2700	1400	1910	2270	392	1200	2320	1600	1700	1900	1600	752

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 40043909306222  
LONGITUDE 1081408PICEANCE CREEK AT WHITE RIVER, CO.  
DRAINAGE AREA 1081408STREAM  
DATUM 5730.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY	
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN
1	1630	---	---	---	---	1910	1790	1790	1870	1870			
2	1100	---	---	---	---	1900	1860	1870	1870				
3	1150	---	---	---	---	1880	1830	1860	1860				
4	---	---	---	---	---	1840	1780	1800	1800				
5	---	---	---	---	---	1790	---	---	---				
6	---	---	---	---	---	1780	1730	1750	1750				
7	1930	---	---	---	---	1760	1650	1710	1710				
8	2210	---	---	---	---	1910	1730	1810	1810				
9	2630	---	---	---	---	1940	1860	1890	1890				
10	---	---	---	---	---	1920	1830	1880	1880				
11	---	---	---	---	---	1840	1790	1820	1820				
12	1820	---	---	---	---	1820	1750	1780	1780				
13	1990	---	---	---	---	1800	1480	1730	1730				
14	1630	1120	781	---	---	---	---	---	---				
15	1650	958	1210	---	---	---	---	---	---				
16	1570	---	---	---	---	---	---	---	---				
17	1550	1430	1500	---	---	---	---	---	---				
18	1470	---	---	---	---	---	---	---	---				
19	1080	---	---	---	---	---	---	---	---				
20	1420	1030	1170	---	---	---	---	---	---				
21	1920	1450	1700	---	---	---	---	---	---				
22	1910	---	---	---	---	---	---	---	---				
23	1940	---	---	---	---	---	---	---	---				
24	1770	---	---	---	---	---	---	---	---				
25	1720	---	---	---	---	---	---	---	---				
26	1580	---	---	---	---	---	---	---	---				
27	1810	---	---	---	---	---	---	---	---				
28	1700	---	---	---	---	---	---	---	---				
29	1820	---	---	---	---	---	---	---	---				
30	---	---	---	---	---	---	---	---	---				
31	---	---	---	---	---	---	---	---	---				
MONTH	2630	958	1270	---	---	1940	1480	1810	1810				

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 40043909306222 PICEANCE CREEK AT WHITE RIVER, CO.  
LONGITUDE 1081408 DRAINAGE AREA 652.00 DATUM 5730.00 STATE 08 COUNTY 103

STREAM

SOURCE AGENCY USGS

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	19.0	---	---	---	---	2.5	---	---	.5	---	---	.5	---	---
2	18.0	---	---	---	---	5.0	---	---	.5	---	---	.5	---	---
3	17.5	---	---	---	---	2.0	---	---	.0	.0	.0	---	---	---
4	13.0	---	---	---	---	---	---	---	.0	.0	.0	---	---	---
5	11.0	---	---	---	---	8.0	---	---	.0	---	---	---	---	---
6	17.5	---	---	---	---	7.5	4.5	2.0	.0	.0	-0.5	---	---	---
7	18.0	---	---	---	---	7.5	---	---	.0	.0	-0.5	---	---	---
8	17.5	---	---	---	---	---	---	---	.0	.0	-0.5	---	---	---
9	16.5	7.5	11.5	---	---	7.0	---	---	.0	.0	---	.0	---	.0
10	16.5	6.0	10.5	---	---	7.0	---	---	.0	---	---	.0	---	---
11	16.0	6.0	10.5	---	---	4.5	---	---	.0	.0	-0.5	.5	---	---
12	14.5	6.0	10.0	---	---	---	---	---	.0	.0	.0	---	---	---
13	16.0	---	---	---	---	---	---	---	.0	---	---	.0	---	---
14	11.5	---	---	---	---	6.0	4.0	1.5	---	---	---	.0	-0.5	---
15	15.5	---	---	---	---	5.5	2.0	.5	.0	---	---	.0	---	---
16	16.0	---	---	---	---	4.5	---	---	.0	---	---	2.5	---	---
17	13.0	5.5	9.5	---	---	.5	---	---	.0	.0	-0.5	4.0	---	---
18	14.0	---	---	---	---	5.0	---	---	.0	---	---	3.0	---	---
19	13.0	---	---	---	---	4.5	3.0	---	---	---	---	---	---	---
20	9.0	---	---	---	---	3.0	1.5	.5	.0	---	---	---	---	---
21	9.0	6.0	7.0	---	---	1.5	.5	.5	.0	---	---	---	---	---
22	9.5	4.0	6.5	---	---	1.0	.5	.5	---	---	---	---	---	---
23	10.5	5.0	7.5	---	---	.5	.5	.5	.0	---	---	1.0	---	---
24	10.5	5.5	7.5	---	---	1.0	.5	.5	.0	---	---	1.0	---	---
25	11.5	5.5	8.0	---	---	1.0	---	---	.0	---	---	1.0	---	---
26	10.5	6.0	8.0	---	---	1.0	.5	.5	.5	---	---	1.0	---	---
27	10.5	6.0	8.0	---	---	.5	.5	.5	.0	---	---	---	---	---
28	9.0	4.5	6.5	---	---	.5	.5	.0	.5	---	---	1.0	---	---
29	6.5	3.5	5.0	---	---	.5	.0	.0	.5	---	---	1.0	---	---
30	6.5	1.5	3.5	---	---	.5	.5	.0	.5	---	---	1.0	---	---
31	5.0	---	---	---	---	---	---	---	.5	---	---	1.0	---	---
MONTH	19.0	1.5	8.0	---	---	8.0	1.5	.0	.5	-0.5	.0	4.0	-0.5	.0

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 40043909306222  
LONGITUDE 1081408PICEANCE CREEK AT WHITE RIVER, CO.  
DRAINAGE AREASTHEAM  
DATUM 5730.00  
STATE 08  
COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	1.0	---	---	---	---	9.0	3.0	5.5	---	---	---	---	---	---
2	.5	---	---	---	---	7.0	2.5	4.5	---	---	---	---	---	---
3	.5	---	---	---	---	6.0	3.5	4.5	---	---	---	---	---	---
4	---	---	---	---	---	8.0	3.5	5.5	---	---	---	---	---	---
5	---	---	---	---	---	8.0	3.5	5.5	---	---	---	---	---	---
6	---	---	---	---	---	5.5	4.0	4.5	---	---	---	---	---	---
7	2.5	---	---	---	---	6.0	1.0	4.0	---	---	---	---	---	---
8	.5	---	---	---	---	9.0	3.0	6.0	---	---	---	---	---	---
9	.5	---	---	---	---	9.0	3.0	6.0	---	---	---	---	---	---
10	---	---	---	---	---	10.0	2.5	6.0	---	---	---	---	---	---
11	---	---	---	---	---	7.5	3.0	5.5	---	---	---	---	---	---
12	.0	---	---	---	---	8.5	2.5	5.5	---	---	---	---	---	---
13	.5	---	---	---	---	7.5	1.0	3.0	---	---	---	---	---	---
14	1.0	.5	.5	.5	---	---	---	---	---	---	---	---	---	---
15	1.5	.5	.5	.5	---	---	---	---	---	---	---	---	---	---
16	6.0	---	---	---	---	---	---	---	---	---	---	---	---	---
17	5.5	3.5	3.5	4.5	---	---	---	---	---	---	---	---	---	---
18	4.0	---	---	---	---	---	---	---	---	---	---	---	---	---
19	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---
20	4.0	3.0	3.0	3.5	---	---	---	---	---	---	---	---	---	---
21	6.0	3.5	3.5	4.5	---	---	---	---	---	---	---	---	---	---
22	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---
23	5.0	---	---	---	---	---	---	---	---	---	---	---	---	---
24	5.5	---	---	---	---	---	---	---	---	---	---	---	---	---
25	6.0	---	---	---	---	---	---	---	---	---	---	---	---	---
26	6.5	---	---	---	---	---	---	---	---	---	---	---	---	---
27	8.0	---	---	---	---	---	---	---	---	---	---	---	---	---
28	7.5	---	---	---	---	---	---	---	---	---	---	---	---	---
29	7.0	---	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	8.0	.5	2.5	1.0	5.0	10.0	1.0	5.0	---	---	---	---	---	---



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306222 - PICEANCE CREEK AT WHITE RIVER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALUM- INUM, DIS- SOLVED (UG/L) AS (00410)	ALUM- INUM, DIS- SOLVED (UG/L) AS AL (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N (00608)	ARSENIC DIS- SOLVED (UG/L) AS AS (01000)	BARIUM, DIS- SOLVED (UG/L) AS BA (01005)	BICAR- BONATE (MG/L) AS HCO3 (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L) AS B (01020)	BROMIDE DIS- SOLVED (MG/L) AS BR (71870)	CADMIUM DIS- SOLVED (UG/L) AS CD (01025)	CALCIUM DIS- SOLVED (MG/L) AS CA (00915)	CAR- BONATE (MG/L) AS CO3 (00445)
JUN , 1979												
25....	880	--	--	7	200	1070	--	430	--	0	56	0
JUL												
12....	--	--	--	--	--	1320	--	--	--	--	--	--
16....	1160	--	--	4	100	1320	--	460	--	1	49	47
AUG												
21....	600	--	--	3	100	730	--	280	--	<1	60	0
SEP												
04....	578	--	--	--	--	680	--	--	--	--	--	12
18....	820	--	--	3	200	--	--	390	--	0	52	0
27....	1000	--	--	--	--	1150	--	--	--	--	--	36
OCT												
22....	720	--	--	3	400	--	--	330	--	0	67	--
NOV												
15....	580	--	--	3	80	--	--	240	--	2	66	--
DEC												
19....	680	--	--	4	90	--	--	250	--	<1	75	--
JAN , 1980												
23....	710	--	--	3	90	--	--	280	--	<1	75	--
FEB												
20....	380	--	--	3	200	--	--	200	--	0	44	--
MAR												
26....	590	--	--	3	80	--	--	240	--	<1	63	--

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHO, DIS- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979											
25...	--	.09	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
16...	--	.15	--	--	--	--	--	--	--	--	--
AUG											
21...	--	.15	--	--	--	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
18...	--	.12	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
22...	--	.12	--	--	--	--	--	--	--	--	--
NOV											
15...	--	.03	--	--	--	--	--	--	--	--	--
DEC											
19...	--	.15	--	--	--	--	--	--	--	--	--
JAN , 1980											
23...	--	.31	--	--	--	--	--	--	--	--	--
FEB											
20...	--	.40	--	--	--	--	--	--	--	--	--
MAR											
26...	--	.15	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306222 - PICEANCE CREEK AT WHITE RIVER, CO.

PROCESS DATE 07/01/80  
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WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979											
25...	--	--	--	--	--	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
16...	--	--	--	--	--	--	--	--	--	--	--
AUG											
21...	--	--	--	--	--	--	--	--	--	--	0
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
18...	--	--	--	--	--	--	--	--	--	--	1
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
22...	--	--	--	--	--	--	--	--	--	--	0
NOV											
15...	--	--	--	--	--	--	--	--	--	--	--
DEC											
19...	--	--	--	--	--	--	--	--	--	--	0
JAN , 1980											
23...	--	--	--	--	--	--	--	--	--	--	--
FEB											
20...	--	--	--	--	--	--	--	--	--	--	4
MAR											
26...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306222 - PICEANCE CREEK AT WHITE RIVER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 09

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (71856)	OIL AND GREASE (MG/L) (00550)	CARBON+ INORG+ ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON+ INOR- GANIC DIS- SOLVED (MG/L AS C) (00691)
JUN , 1979											
25...	30	90	0	.0	.00	--	--	--	--	--	--
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
16...	30	110	10	.0	.10	--	--	--	--	--	--
AUG											
21...	20	70	4	.0	.00	--	--	--	--	--	--
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
18...	40	82	0	.0	.10	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
22...	20	98	20	.0	.00	--	--	--	--	--	--
NOV											
15...	20	71	9	.0	.00	--	--	--	--	--	--
DEC											
19...	30	77	8	.0	.00	--	--	--	--	--	--
JAN , 1980											
23...	30	80	10	.0	.00	--	--	--	--	--	--
FER											
20...	10	51	30	.0	.00	--	--	--	--	--	--
MAR											
26...	30	69	10	.0	.00	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306222 - PICEANCE CREEK AT WHITE RIVER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND, CHEM- ICAL (HIGH LEVEL) (MG/L) (00340)	CHLO- RIDE, DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM, DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL, 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL, IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE, DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
JUN , 1979											
25...	--	43	--	--	--	0	--	--	1.2	10	0
JUL											
12...	--	--	--	--	--	--	--	--	--	--	--
16...	--	67	--	--	--	2	--	--	1.4	10	0
AUG											
21...	--	26	--	--	--	2	--	--	.8	20	0
SEP											
04...	--	--	--	--	--	--	--	--	--	--	--
18...	--	47	--	--	--	1	--	--	1.7	20	0
27...	--	--	--	--	--	--	--	--	--	--	--
OCT											
22...	--	34	--	--	--	0	--	--	1.0	10	0
NOV											
15...	--	22	--	--	--	0	--	--	1.0	10	0
DEC											
19...	--	27	--	--	--	0	--	--	.2	<10	0
JAN , 1980											
23...	--	35	--	--	--	0	--	--	1.0	<10	0
FEB											
20...	--	18	--	--	--	4	--	--	.6	440	0
MAR											
26...	--	27	--	--	--	2	--	--	.3	90	0



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306222 - PICEANCE CREEK AT WHITE RIVER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L AS SH) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS S) (01080)	SULFATE DIS- SOLVED (MG/L AS S) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979											
25....	4.7	1	15	430	1660	2700	490	--	0	--	--
JUL											
12....	--	--	--	--	--	--	--	--	--	--	--
16....	4.9	0	12	570	2120	2400	600	--	10	--	--
AUG											
21....	3.7	1	18	240	1180	2300	400	--	<3	--	--
SEP											
04....	--	--	--	--	--	--	--	--	--	--	--
18....	3.7	1	14	410	1570	2300	460	--	10	--	--
27....	--	--	--	--	--	--	--	--	--	--	--
OCT											
22....	5.4	1	19	330	1510	2900	520	--	10	--	--
NOV											
15....	3.5	1	17	230	1120	2600	350	--	<3	--	--
DEC											
19....	3.5	1	18	260	1240	2900	360	--	<3	--	--
JAN , 1980											
23....	3.5	1	18	310	1340	2900	380	--	<3	--	--
FEB											
20....	6.3	0	16	150	759	1800	240	--	10	--	--
MAR											
26....	2.9	1	15	270	1160	2500	350	--	4	--	--

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 401007 LONGITUDE 1082402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	3760	2860	3360	3490	3210	3330	3620	3550	3600
2	---	---	---	3700	2850	3340	3380	3180	3280	3590	3530	3570
3	---	---	---	3770	2920	3350	3250	3120	3210	3600	3470	3550
4	---	---	---	3700	3110	3350	3330	3210	3270	3540	3480	3510
5	---	---	---	3860	3150	3360	3590	3290	3340	3570	3460	3490
6	---	---	---	3700	3140	3380	3260	3120	3190	3630	3330	3510
7	---	---	---	3430	3350	3400	3250	3110	3200	3590	3340	3470
8	---	---	---	3410	3330	3380	3370	3180	3280	3470	3440	3460
9	3250	2570	3180	3410	3310	3380	3480	3260	3390	3460	3290	3400
10	3270	2090	3200	3590	3170	3350	3550	3310	3430	3330	2350	3180
11	3270	3180	3220	3420	3250	3330	3620	3270	3430	---	---	---
12	3300	3180	3220	3600	3000	3320	3680	3320	3530	---	---	---
13	3310	3200	3240	3620	2940	3340	3690	3400	3550	---	---	---
14	3340	3220	3270	3720	2880	3330	3670	3410	3570	3030	1210	2760
15	3340	3230	3260	3790	2810	3330	3680	3440	3570	3310	3070	3220
16	3320	3200	3260	3760	2810	3360	3740	3450	3600	3360	3310	3340
17	3290	3190	3230	3720	2870	3370	3750	3530	3630	3390	3310	3360
18	3350	3170	3220	3360	3180	3270	3830	3570	3690	3390	3270	3340
19	3280	3200	3230	3540	3100	3240	3880	3560	3720	3540	3290	3420
20	3280	2260	2970	3270	2910	3090	2940	2790	2870	3610	3170	3440
21	3310	3130	3260	3950	3020	3400	3030	2790	2890	3580	3190	3410
22	3410	3170	3270	4120	3160	3620	2920	2850	2880	3530	3210	3410
23	3390	3230	3280	3790	3290	3530	2940	2880	2910	3610	3140	3430
24	3320	2320	3260	3320	3160	3250	3000	2790	2910	3420	3230	3350
25	3370	3240	3280	3270	3150	3200	2930	2870	2900	3420	3240	3360
26	3320	3230	3270	3310	3160	3240	3030	2860	2930	3760	3270	3510
27	3280	3200	3240	3630	3300	3420	2930	2820	2910	3750	3310	3500
28	3330	3120	3210	3850	3450	3650	2970	2860	2920	3560	3330	3450
29	3230	3060	3150	3740	3360	3540	3160	2800	2970	3560	3330	3460
30	3370	---	---	3630	3290	3440	3110	2880	3000	3450	3430	3630
31	3670	2850	3340	---	---	---	3630	1130	3570	3830	3460	3660
MONTH	3670	2090	3230	4120	2810	3360	3880	1130	3250	3850	1210	3420

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 40100709306255 YELLOW CREEK NEAR WHITE RIVER, CO.  
LONGITUDE 1082402STREAM  
SOURCE AGENCY USGS  
STATE 08 COUNTY 103

DRAINAGE AREA

262.00

DATUM

5535.00

SPECIFIC CONDUCTANCE (MICROMHOS/CM AT 25 DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	FEBRUARY				MARCH				APRIL				MAY			
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN
1	3660	3400	3530	---	---	---	---	---	3210	3090	3150	---	---	---	---	---
2	3540	3400	3480	---	---	---	---	---	3070	2960	3040	---	---	---	---	---
3	3480	3330	3440	---	---	---	---	---	3360	2810	3160	---	---	---	---	---
4	3710	3480	3600	---	---	---	---	---	3470	3340	3400	---	---	---	---	---
5	3650	3310	3500	---	---	---	---	---	3530	3300	3430	---	---	---	---	---
6	3430	3330	3380	---	---	---	---	---	3570	3410	3460	---	---	---	---	---
7	1410	917	1020	---	---	---	---	---	3640	3470	3560	---	---	---	---	---
8	3670	917	3450	---	---	---	---	---	3750	3150	3530	---	---	---	---	---
9	3710	3470	3610	---	---	---	---	---	3770	3020	3540	---	---	---	---	---
10	3590	3430	3520	---	---	---	---	---	3740	3530	3640	---	---	---	---	---
11	3540	3440	3490	---	---	---	---	---	3620	3520	3580	---	---	---	---	---
12	3520	3460	3490	---	---	---	---	---	3670	3180	3520	---	---	---	---	---
13	3540	3480	3510	3620	689	2010	3620	3190	3660	3190	3520	---	---	---	---	---
14	3490	1010	3360	3670	683	2750	3620	3340	3620	3340	3510	---	---	---	---	---
15	3350	2770	3080	3480	618	1770	3720	3420	3720	3420	3490	---	---	---	---	---
16	3280	2540	2990	3710	622	2240	3530	3360	3530	3360	3440	---	---	---	---	---
17	3040	2760	2930	4070	2530	3590	3500	3340	3500	3340	3410	---	---	---	---	---
18	2610	517	1540	3810	609	2800	3550	3400	3550	3400	3460	---	---	---	---	---
19	748	292	550	3690	674	2770	3550	3410	3550	3410	3480	---	---	---	---	---
20	782	---	---	3760	3310	3620	3600	3450	3600	3450	3500	---	---	---	---	---
21	1370	738	1110	3780	3080	3590	3660	3450	3660	3450	3520	---	---	---	---	---
22	---	---	---	3670	2750	3410	4110	3450	4110	3450	3510	---	---	---	---	---
23	---	---	---	3720	3500	3660	3590	3410	3590	3410	3490	---	---	---	---	---
24	---	---	---	3720	3370	3600	3510	3490	3510	3490	3500	---	---	---	---	---
25	---	---	---	4380	3460	3610	---	---	---	---	---	---	---	---	---	---
26	---	---	---	3620	3340	3540	---	---	---	---	---	---	---	---	---	---
27	---	---	---	3690	2630	3360	---	---	---	---	---	---	---	---	---	---
28	---	---	---	3570	3480	3520	---	---	---	---	---	---	---	---	---	---
29	---	---	---	3550	3370	3450	---	---	---	---	---	---	---	---	---	---
30	---	---	---	3370	3140	3300	---	---	---	---	---	---	---	---	---	---
31	---	---	---	3280	3150	3210	---	---	---	---	---	---	---	---	---	---
MONTH	3710	292	2930	4380	609	3150	4110	2810	4110	2810	3450	---	---	---	---	---

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER 09306255 YELLOW CREEK NEAR WHITE RIVER, CO. STREAM SOURCE AGENCY USGS  
 LATITUDE 401007 LONGITUDE 1092402 DRAINAGE AREA 262.00 DATUM 5535.00 STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	---	---	---	1.5	.0	.5	.5	.0	.0	2.5	.0	1.0
2	---	---	---	6.5	.0	1.5	.5	.0	.0	2.5	1.0	1.5
3	---	---	---	7.5	.5	2.0	.5	.0	.5	2.0	.0	1.0
4	---	---	---	8.5	.5	3.0	.5	.0	.0	3.0	.5	1.5
5	---	---	---	10.5	.5	3.5	.5	.0	.0	2.5	.0	1.0
6	---	---	---	9.0	.5	3.5	.5	.0	.0	2.0	.0	.5
7	---	---	---	8.0	1.5	4.5	.5	.0	.5	1.0	.0	.0
8	---	---	---	10.0	1.0	4.5	2.5	.5	1.5	3.0	.0	1.5
9	19.5	4.5	13.0	8.5	1.0	4.0	3.0	.5	1.0	4.0	1.0	2.0
10	19.5	2.5	9.5	8.5	.5	3.0	3.0	.0	1.0	4.0	.0	2.5
11	19.0	2.5	9.0	7.0	.5	3.0	2.5	.5	1.0	---	---	---
12	16.0	2.0	8.0	8.0	.5	2.0	.5	.0	.0	---	---	---
13	19.0	2.0	9.5	7.0	.5	1.5	.5	.0	.0	---	---	---
14	13.0	3.5	8.0	6.5	.0	1.5	.5	.0	.0	3.5	.0	3.0
15	17.5	2.5	9.5	5.0	.0	1.0	.5	.0	.5	5.0	2.5	3.5
16	18.0	5.5	10.5	4.5	.0	1.0	.5	.0	.5	4.5	2.5	3.0
17	15.5	1.5	8.0	3.0	.5	1.5	.5	.0	.5	5.0	2.0	3.0
18	16.5	6.0	10.5	7.5	.5	3.5	.5	.0	.5	4.5	1.0	2.5
19	17.5	8.0	10.5	4.0	.5	1.0	.5	.0	.5	2.0	.0	.5
20	8.0	3.0	5.5	.5	.0	.0	.5	.0	.5	.0	.0	.0
21	10.0	2.0	5.5	.5	.0	.5	2.0	.0	.5	.0	.0	.0
22	12.5	-0.5	5.0	.5	.0	.0	3.0	2.0	2.5	.0	.0	.0
23	14.5	.0	6.5	.5	.0	.0	3.5	1.5	2.5	.0	.0	.0
24	12.5	1.5	6.0	.5	.0	.5	2.5	.5	1.0	.0	.0	.0
25	15.0	1.0	7.0	.5	.5	.5	3.0	.5	1.0	1.0	.0	.0
26	14.5	2.0	7.5	.5	.0	.5	1.0	.5	.5	.0	.0	.0
27	14.0	1.5	6.5	.5	.0	.0	2.5	.5	1.5	.0	.0	.0
28	11.5	.0	5.0	.0	.0	.0	3.0	1.5	2.0	.0	.0	.0
29	5.5	.5	3.0	.5	.0	.0	2.0	.5	.5	.0	.0	.0
30	8.5	.5	2.5	.5	.0	.0	2.5	.5	.5	.0	.0	.0
31	5.0	.0	1.0	---	---	---	.5	-0.5	.0	.5	.0	.0
MONTH	19.5	-0.5	7.5	10.5	.0	1.5	3.5	-0.5	.5	5.0	.0	1.0

## UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY

STATION NUMBER  
LATITUDE 40100709306255  
LONGITUDE 1082402YELLOW CREEK NEAR WHITE RIVER, CO.  
DRAINAGE AREASTHEAM  
DATUM 5535.00SOURCE AGENCY USGS  
STATE 08 COUNTY 103

TEMPERATURE, WATER (DEG. C), WATER YEAR OCTOBER 1979 TO SEPTEMBER 1980

## PROVISIONAL DATA

DAY	MAX	MIN	FEBRUARY			MARCH			APRIL			MAY		
			MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN	MAX	MEAN	MIN
1	.0	.0	.0	.0	---	---	---	---	14.0	.5	.5	5.5		
2	.0	.0	.0	.0	---	---	---	---	8.0	.5	.5	3.5		
3	2.0	.0	.0	.5	---	---	---	---	14.0	.5	.5	5.5		
4	3.5	.5	.5	2.0	---	---	---	---	19.5	2.5	2.5	9.0		
5	2.0	.0	.0	.5	---	---	---	---	18.5	2.0	2.0	8.0		
6	3.5	.0	.0	1.0	---	---	---	---	16.5	3.0	3.0	7.5		
7	8.5	.5	.5	6.5	---	---	---	---	15.5	1.0	1.0	6.0		
8	8.5	.0	.0	.0	---	---	---	---	18.0	.5	.5	6.5		
9	.5	.0	.0	.0	---	---	---	---	20.0	.5	.5	8.5		
10	.5	.0	.0	.5	---	---	---	---	16.5	4.0	4.0	8.0		
11	.5	.0	.0	.5	---	---	---	---	9.5	1.0	1.0	5.0		
12	.5	.0	.0	.5	---	---	---	---	12.0	.5	.5	6.5		
13	.5	.0	.0	.5	---	---	---	---	17.0	6.0	6.0	10.0		
14	6.0	.0	.0	1.5	---	---	---	---	19.5	2.5	2.5	10.0		
15	5.5	2.0	2.0	3.5	---	---	---	---	20.0	2.5	2.5	9.5		
16	6.0	1.5	1.5	3.0	---	---	---	---	21.5	1.0	1.0	10.0		
17	5.0	1.5	1.5	3.0	.0	.0	4.0	4.0	23.0	.5	.5	11.0		
18	1.5	.0	.0	.5	---	---	---	---	24.0	3.0	3.0	12.0		
19	.5	.0	.0	.0	---	---	---	---	25.0	3.0	3.0	13.0		
20	1.5	.0	.0	.5	2.5	2.5	7.5	7.5	24.5	5.5	5.5	13.0		
21	4.5	.0	.0	1.5	15.5	15.5	6.0	6.0	22.0	6.5	6.5	12.0		
22	---	---	---	---	9.0	9.0	5.0	5.0	20.5	7.5	7.5	12.0		
23	---	---	---	---	15.5	15.5	7.0	7.0	20.0	6.5	6.5	11.5		
24	---	---	---	---	15.0	15.0	7.5	7.5	11.0	9.0	9.0	9.5		
25	---	---	---	---	7.0	7.0	4.0	4.0	---	---	---	---		
26	---	---	---	---	16.0	16.0	6.0	6.0	---	---	---	---		
27	---	---	---	---	17.0	17.0	6.0	6.0	---	---	---	---		
28	---	---	---	---	8.5	8.5	4.5	4.5	---	---	---	---		
29	---	---	---	---	16.5	16.5	7.0	7.0	---	---	---	---		
30	---	---	---	---	8.0	8.0	3.0	3.0	---	---	---	---		
31	---	---	---	---	12.5	12.5	4.5	4.5	---	---	---	---		
MONTH	8.5	.0	.0	1.0	17.0	17.0	5.5	5.5	25.0	.5	.5	9.0		



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	ALKA- LITY (MG/L AS CAC03) (00410)	ALUM- INUM, DIS- SOLVED (UG/L) AS AL) (01106)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L) AS N) (00608)	ARSENIC DIS- SOLVED (UG/L) AS AS) (01000)	BARIUM, DIS- SOLVED (UG/L) AS BA) (01005)	BICAR- BONATE (MG/L) AS HCO3) (00440)	OXYGEN DEMAND, BIO- CHEM- ICAL, 5 DAY (MG/L) (00310)	BORON, DIS- SOLVED (UG/L) AS B) (01020)	BROMIDE DIS- SOLVED (MG/L) AS BR) (71870)	CADMIUM DIS- SOLVED (UG/L) AS CD) (01025)	CALCIUM DIS- SOLVED (MG/L) AS CA) (00915)	CAR- BONATE (MG/L) AS CO3) (00445)
JUN , 1979												
27...	--	--	--	--	--	--	--	--	--	--	12	--
JUL												
17...	1530	--	--	--	--	--	--	810	--	--	19	--
AUG												
16...	1220	20	.00	6	0	--	>7.0	720	.4	1	24	--
19...	1200	10	.00	5	0	--	1.6	650	2.0	0	27	--
OCT												
23...	1100	--	--	--	--	--	--	590	--	--	41	--
JAN , 1980												
14...	860	--	--	--	--	--	--	450	--	--	30	--
FEB												
19...	320	--	.18	4	--	--	--	200	.1	--	12	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

WATER QUALITY DATA

DATE	CARBON, TOTAL (MG/L AS C) (00690)	PHOS- PHATE, ORTHOPHOS- PHATE, DI- SOLVED (MG/L AS P04) (00660)	ALDRIN, TOTAL (UG/L) (39330)	LINDANE TOTAL (UG/L) (39340)	CHLOR- DANE, TOTAL (UG/L) (39350)	DDD, TOTAL (UG/L) (39360)	DDE, TOTAL (UG/L) (39365)	DDT, TOTAL (UG/L) (39370)	DI- ELDRIN TOTAL (UG/L) (39380)	ENDRIN, TOTAL (UG/L) (39390)	TOX- APHENE, TOTAL (UG/L) (39400)
JUN , 1979	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--
JUL	--	--	--	--	--	--	--	--	--	--	--
17...	--	--	--	--	--	--	--	--	--	--	--
AUG	--	.00	--	--	--	--	--	--	--	--	--
16...	--	.00	--	--	--	--	--	--	--	--	0
19...	--	.09	.00	.00	.0	.00	.00	.00	.00	.00	.00
SEP	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--
OCT	--	--	--	--	--	--	--	--	--	--	--
23...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980	--	--	--	--	--	--	--	--	--	--	--
14...	--	--	--	--	--	--	--	--	--	--	--
FEB	--	--	--	--	--	--	--	--	--	--	--
19...	--	--	--	--	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	HEPTA- CHLOR, TOTAL (UG/L) (39410)	HEPTA- CHLOR EPOXIDE TOTAL (UG/L) (39420)	PCB, TOTAL (UG/L) (39516)	MALA- THION, TOTAL (UG/L) (39530)	PARA- THION, TOTAL (UG/L) (39540)	DI- AZINON, TOTAL (UG/L) (39570)	METHYL PARA- THION, TOTAL (UG/L) (39600)	2,4-D, TOTAL (UG/L) (39730)	2,4,5-T TOTAL (UG/L) (39740)	SILVEX, TOTAL (UG/L) (39760)	PHENOLS (UG/L) (32730)
JUN , 1979											
27...	--	--	--	--	--	--	--	--	--	--	--
JUL											
17...	--	--	--	--	--	--	--	--	--	--	--
AUG											
16...	--	--	--	--	--	--	--	--	--	--	2
SEP											
19...	.00	.00	.0	.00	.00	.00	.00	.00	.00	.00	0
OCT											
23...	--	--	--	--	--	--	--	--	--	--	--
JAN , 1980											
14...	--	--	--	--	--	--	--	--	--	--	--
FEH											
19...	--	--	--	--	--	--	--	--	--	--	5

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

WATER QUALITY DATA

DATE	LITHIUM DIS- SOLVED (UG/L AS LI) (01130)	MAGNE- SIUM, DIS- SOLVED, (MG/L AS MG) (00925)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY DIS- SOLVED (UG/L AS HG) (71890)	METHY- LENE BLUE ACTIVE SUB- STANCE (MG/L) (38260)	MOLYB- DENUM, DIS- SOLVED (UG/L AS MO) (01060)	NITRO- GEN, NITRATE DIS- SOLVED (MG/L AS NO3) (71851)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS NO2) (74856)	OIL AND GREASE (MG/L) (00550)	CARBON, INORG + ORGANIC DIS- SOLVED (MG/L AS C) (00682)	CARBON, INOR- GANIC, DIS- SOLVED (MG/L AS C) (00691)
JUN , 1979											
27...	--	100	--	--	--	--	--	--	--	--	--
JUL											
17...	--	100	--	--	--	--	--	--	--	--	--
AUG											
16...	130	72	20	.0	--	39	--	--	--	--	--
19...	130	82	20	.0	--	20	--	--	--	--	--
SEP											
19...	--	100	--	--	--	--	--	--	--	--	--
OCT											
23...	--	100	--	--	--	--	--	--	--	--	--
JAN , 1980											
14...	--	56	--	--	--	--	--	--	--	--	--
FEB											
19...	--	11	--	.0	--	--	--	--	--	--	--

UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

PROCESS DATE 07/01/80  
DISTRICT CODE 08

WATER QUALITY DATA

DATE	OXYGEN DEMAND CHEM- ICAL (HIGH LEVEL) (MG/L) AS CL) (00340)	CHLO- RIDE DIS- SOLVED (MG/L) AS CL) (00940)	CHRO- MIUM DIS- SOLVED (UG/L) AS CR) (01030)	COLI- FORM, FECAL 0.45 UM-MF (COLS./ 100 ML) (31616)	COLI- FORM, TOTAL IMMED. (COLS. PER 100 ML) (31501)	COPPER, DIS- SOLVED (UG/L) AS CU) (01040)	CYANIDE DIS- SOLVED (MG/L) AS CN) (00723)	STREP- TOCOCCI FECAL, (COLS. PER 100 ML) (31679)	FLUO- RIDE DIS- SOLVED (MG/L) AS F) (00950)	IRON, DIS- SOLVED (UG/L) AS FE) (01046)	LEAD, DIS- SOLVED (UG/L) AS PB) (01049)
JUN , 1979											
27...	--	140	--	--	--	--	--	--	2.6	--	--
JUL											
17...	--	140	--	--	--	--	--	--	2.6	--	--
AUG											
16...	190	120	0	--	--	3	--	--	2.1	80	3
19...	200	260	10	--	K500	1	--	--	2.2	20	0
OCT											
23...	--	120	--	--	--	--	--	--	1.9	--	--
JAN , 1980											
14...	--	85	--	--	--	--	--	--	1.5	--	--
FEB											
19...	38	16	--	--	--	--	--	--	.6	--	--



UNITED STATES DEPARTMENT OF INTERIOR - GEOLOGICAL SURVEY  
09306255 - YELLOW CREEK NEAR WHITE RIVER, CO.

PROCESS DATE 07/01/80  
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WATER QUALITY DATA

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	SELE- NIUM, DIS- SOLVED (UG/L AS SE) (01145)	SILICA, DIS- SOLVED (MG/L AS SiO2) (00955)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	SOLIDS, SUM OF CONSTITUENTS, DIS- SOLVED (MG/L AS SR) (70301)	STRON- TIUM, DIS- SOLVED (UG/L AS SR) (01080)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	SULFIDE DIS- SOLVED (MG/L AS S) (00746)	ZINC, DIS- SOLVED (UG/L AS ZN) (01090)	GROSS ALPHA, SUSP. TOTAL (PCI/L AS U-NAT) (01516)	GROSS BETA, DIS- SOLVED (PCI/L AS CS-137) (03515)
JUN , 1979											
27...	4.3	--	6.7	880	--	--	640	--	--	--	--
JUL											
17...	4.3	--	9.4	830	2610	--	580	--	--	--	--
AUG											
16...	4.2	4	7.2	700	2150	1900	480	--	10	--	--
SEP											
19...	2.1	2	10	700	2030	2600	210	--	10	2.4	<13
OCT											
23...	5.0	--	13	600	2090	--	540	--	--	--	--
JAN , 1980											
14...	3.5	--	9.0	500	1540	--	330	--	--	--	--
FEB											
19...	4.7	2	7.7	130	489	--	110	--	--	100	6.9

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SPRINGS AND SEEPS



#### 2.2.2.2 Springs and Seeps

Water quality data for Springs and Seeps are presented in this section. Field measurements for dissolved oxygen, pH, specific conductance and temperature are presented with the levels data in Section 2.2.1.2. Locations of Springs and Seeps around the C-b Tract are shown in Figure 2.2.1.2-1.

Data is presented in this section for the following stations:

<u>Station Designation</u>	<u>Computer Code</u>
CB S-1	WS01
CB S-2	WS02
CB S-3	WS03
CB S-4	WS04
CB S-6	WS06
CB S-7	WS07
CB S-8	WS08
CB S-9	WS09
CB S-10 (W-3)*	WS10
S-11 (S-101)*	WS36

\* Station designations with parenthesis indicate same spring sampled by both project and state personnel.



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CH-TRACT  
WATER QUALITY PARAMETERS  
SPRINGS AND SEEPS  
FOR SAMPLE DATA SHOWN

SPRINGS AND SEEPS	YR	MO	TOTAL ALK (MG/L CACO <sub>3</sub> )	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	HA (MG/L)	HCO <sub>3</sub> (MG/L CACO <sub>3</sub> )	CO <sub>3</sub> (MG/L CACO <sub>3</sub> )	HOU (MG/L)	HR (MG/L)	HARDNESS (MG/L CACO <sub>3</sub> )	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
4501	79	8	400.0	-1.00	-0.50	-0.20	-0.50	340.0	60.0	1.0	700	480.0	110.0	62.0	75.0	2.276
	80	1	420.0	-1.00	-0.40	-0.20	-0.50	380.0	40.0	1.0		560.0	120.0	100.0	59.0	2.210
		4	420.0	-1.00	-0.100	-0.020	-0.50	360.0	60.0	-1.0		680.0	140.0	60.0	52.0	2.691
														86.0	130.0	2.339
4502	79	8	400.0	-1.00	-0.50	-0.20	-0.50	320.0	77.0	2.0	1.000	460.0	100.0	57.0	76.0	2.112
	80	1	390.0	-1.00	-0.60	-0.20	-0.50	280.0	110.0	2.0		510.0	100.0	89.0	57.0	1.930
		4	400.0	-1.00	-0.40	-0.020	-0.50	370.0	40.0	4.0		370.0	110.0	57.0	53.0	2.500
								330.0	70.0	8.0		600.0	110.0	78.0	110.0	1.961
4503	79	8	400.0	-1.00	-0.50	-0.20	-0.50	360.0	40.0	2.0	1.000	510.0	120.0	70.0	75.0	2.389
	80	1	400.0	-1.00	-0.100	-0.020	-0.50	300.0	100.0	23.0		540.0	110.0	98.0	57.0	2.050
		4	430.0	-1.00	-0.40	-0.020	-0.50	420.0	1.0	6.0		370.0	110.0	57.0	53.0	2.500
								380.0	50.0			650.0	120.0	86.0	120.0	2.043
4504	79	8	390.0	-1.00	-0.50	-0.20	-0.50	340.0	48.0	2.0	.800	470.0	100.0	57.0	74.0	2.125
	80	1	410.0	-1.00	-0.60	-0.020	-0.50	360.0	54.0	1.0		510.0	110.0	90.0	58.0	2.110
		4	410.0	-1.00	-0.40	-0.020	-0.50	370.0	32.0	2.0		330.0	99.0	53.0	47.0	2.353
								320.0	90.0	2.0		620.0	110.0	77.0	120.0	1.928
4506	79	8	470.0	-1.00	-0.50	-0.20	-0.50	430.0	40.0	3		540.0	120.0	74.0	84.0	2.303
	80	1	440.0	-1.00	-0.40	-0.020	-0.50	380.0	60.0	30.0	.600	540.0	110.0	93.0	63.0	2.061
		4	490.0	-1.00	-0.100	-0.020	-0.50	440.0	24.0	23.0		400.0	120.0	66.0	59.0	2.603
								450.0	40.0	-1.0		650.0	130.0	89.0	110.0	2.235
4507	79	8	460.0	-1.00	-0.50	-0.20	-0.50	430.0	30.0	3	.700	550.0	120.0	72.0	86.0	2.310
	80	1	440.0	-1.00	-0.40	-0.020	-0.50	350.0	90.0	13.0		570.0	120.0	100.0	63.0	2.190
		4	480.0	-1.00	-0.40	-0.020	-0.50	480.0	-1.0	-1.0		440.0	130.0	70.0	62.0	2.689
								420.0	60.0	-1.0		680.0	140.0	94.0	120.0	2.325
4508	79	8	430.0	-1.00	-0.50	-0.20	-0.50	380.0	48.0	3		510.0	120.0	61.0	83.0	2.439
	80	1	470.0	-1.00	-0.40	-0.020	-0.50	410.0	60.0	36.0	.400	580.0	120.0	100.0	67.0	2.171
		4	430.0	-1.00	-0.100	-0.020	-0.50	430.0	-1.0	24.0		400.0	120.0	61.0	59.0	2.617
								410.0	70.0	-1.0		640.0	120.0	85.0	120.0	2.049
4509	79	8	470.0	-1.00	-0.50	-0.20	-0.50	405.0	65.0	1.0	.900	550.0	110.0	63.0	88.0	2.187
	80	1	470.0	-1.00	-0.40	-0.020	-0.50	410.0	56.0	31.0		580.0	110.0	100.0	67.0	1.990
								480.0	-1.0	22.0		430.0	120.0	65.0	65.0	2.519

NOTE: - INDICATES LESS THEN

CR-TRACT  
WATER QUALITY PARAMETERS  
SPRINGS AND SEEPS  
FOR SAMPLE DATA SHOWN

SPRGS AND SEEPS	YR	MO	TOTAL ALK (MG/L CACO <sub>3</sub> )	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO <sub>3</sub> (MG/L CACO <sub>3</sub> )	CO <sub>3</sub> (MG/L CACO <sub>3</sub> )	HOD (MG/L)	BR (MG/L)	HARDNESS (MG/L CACO <sub>3</sub> )	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
WS09	80	4	490.0	-0.100	-0.040	-0.020	-0.50	430.0	60.0	-1.0		680.0	130.0	89.0	120.0	2.192
WS10	79	8	440.0	-0.100	.150	-0.020	.50	390.0	48.0	.4		530.0	110.0	62.0	83.0	2.226
	80	1	450.0	-0.100	-0.040	-0.020	1.30	350.0	98.0	28.0	.700	570.0	100.0	100.0	66.0	1.813
		4	450.0	-0.100	.090	-0.020	.50	460.0	-1.0	-1.0		410.0	110.0	62.0	64.0	2.350
					.200	-0.020	-0.50	360.0	90.0	-1.0		500.0	120.0	78.0	72.0	2.334
WS16	80	4	430.0	-0.100	.040	-0.020	-0.50	310.0	120.0	2.0		610.0	120.0	83.0	110.0	2.104

NOTE: - INDICATES LESS THEN

Cd-TRACT  
WATER QUALITY PARAMETERS  
SPRINGS AND SEEPS  
FOR SAMPLE DATA SHOWN

SPRGS AND SEEPS	YR	MO	FECAL COLIF. /100ML	TOTAL COLIF. /100ML	N KJELD. (MG/L)	Hg (MG/L)	SE (MG/L)	AG (MG/L)	TOTAL ALPHA PCI/L	TOTAL BETA PCI/L	RADIUM 226 PCI/L	ZN (MG/L)	PH (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WS01	79	8	1		.7	.00004	.020	.020				.020	.020	.020	.020	.02	.20
	80	1			.2	.02000	.020	.020				.020	.020	.020	.020	.03	.20
		4	-1.0	150	.8	.00020	.030	.010	1.2			.010	.020	.020	.020	.02	.40
WS02	79	8	1		.6	.00004	.020	.020				.020	.020	.020	.020	.02	.20
	80	1			.3	.02000	.020	.010				.020	.040	.020	.020	.02	.30
		4	8.0	2000	.3	.00020	.020	.010	2.5			.010	.020	.020	.020	.02	.40
WS03	79	8	1		.3	.02000	.020	.020				.020	.020	.020	.020	.50	.20
	80	1			.3	.02000	.020	.010				.020	.020	.020	.020	.02	.30
		4	-1.0	90.0	1.4	.00020	.010	.010	.2			.010	.020	.020	.020	.02	.40
WS04	79	8	1		.8	.00040	.020	.010				.020	.020	.020	.020	.02	.20
	80	1			.3	.02000	.020	.020				.020	.030	.020	.020	.02	.30
		4	5.0	15,000	.8	.00020	.020	.010				.010	.020	.020	.020	.02	.20
WS06	79	8	1		1.9	.02000	.020	.020				.020	.040	.020	.020	.50	.50
	80	1			.6	.02000	.020	.010				.020	.020	.020	.020	.02	.50
		4	-1.0	390	.2	.00020	.010	.010	.3	7.0		.020	.020	.020	.020	.02	.70
WS07	79	8	1		.6	.02000	.020	.020				.020	.040	.020	.020	.50	.40
	80	1			.2	.02000	.020	.010				.020	.020	.020	.020	.02	.40
		4	-1.0	180	.3	.00020	.010	.010				.020	.020	.020	.020	.02	.50
WS08	79	8	1		.8	.00002	.020	.020				.020	.020	.020	.020	.10	.50
	80	1			.6	.02000	.020	.010				.020	.020	.020	.020	.02	.50
		4	-1.0	110	.1	.00020	.030	.010	1.7			.020	.020	.020	.020	.02	.70
WS09	79	8	1		.4	.00004	.020	.020				.020	.020	.020	.020	.04	.40
	80	1			.3	.02000	.020	.010				.020	.020	.020	.020	.02	.40
												.020	.020	.020	.020	.02	.40

NOTE: - INDICATES LESS THEN

CB-TRACT  
WATER QUALITY PARAMETERS  
SPRINGS AND SEEPS  
FOR SAMPLE DATA SHOWN

SPRGS AND SEEPS	YR	MO	FECAL COLIF. COLONY /100ML	TOTAL COLIF. COLONY /100ML	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	TOTAL ALPHA PCI/L	TOTAL BETA PCI/L	RADIUM 226 PCI/L	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WS09	80	4	-1.0	320	.2	-.00020	.020	-.010		1.0		-.020	-.020	-.05	-.020	.02	.70
WS10	79	8				.00002	.000	-.020				-.020	-.020	.01	.020	.05	.40
	80	1			.3	-.02000	-.020	-.020				-.020	-.040	-.05	-.020	-.02	.50
					.3	-.02000	-.020	-.010	1.0			-.020	-.020	-.05	-.020	-.02	.40
	4	-1.0	70.0		.5	-.00020	-.010	-.010				-.020	-.020	-.05	-.020	.02	.70
WS36	80	4	4.0	200	.5	.00020	.020	-.010	3.4			.010	-.020	-.05	-.020	.03	.50

NOTE: - INDICATES LESS THEN



C8-TRACT  
WATER QUALITY PARAMETERS  
SPRINGS AND SEEP  
FOR SAMPLE DATA SHOWN

SPRINGS AND SEEPS	YR	MU	MU (MG/L)	NI (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHEN (MG/L)	K (MG/L)	B (MG/L)	TOTAL DISS SOLIDS MG/L	SK (MG/L)	SO4 (MG/L)	CO (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
WS01	79	8	-.020	-.020	-.10	-1.0	.0020	2.0	.10	960.0	4.0	370.0	-.020	11.0	13.0	-.020	-.020
	80	1	-.040	-.020	-.10	10.0	.6900	2.0	.10	1000.0	6.1	430.0	-.020	37.0	3.0	-.020	-.020
WS02	79	4	-.050	-.020	-.10	18.0	-.0010	1.7	.10	980.0	5.4	440.0	-.020	14.0	16.0	-.020	-.020
	80	1	-.010	-.020	17.00	1.0	-.0010	1.5	.10	950.0	5.0	330.0	-.010	40.0	2.0	-.020	-.020
WS03	79	8	-.020	-.020	-.10	-1.0	.0030	1.0	1.00	840.0	4.0	310.0	-.020	10.0	15.0	-.020	-.020
	80	1	-.030	-.020	-.10	11.0	.0060	.8	.20	780.0	5.8	350.0	-.020	12.0	5.0	-.020	-.020
WS04	79	4	-.050	-.020	17.00	7.0	.0040	.7	-.10	780.0	5.8	360.0	-.020	13.0	1.0	-.020	-.020
	80	1	-.010	-.020	17.00	1.0	.0040	.9	-.10	850.0	4.8	290.0	-.010	53.0	35.0	-.020	-.020
WS05	79	8	-.030	-.020	-.10	1.0	.0200	1.8	.10	1000.0	4.7	400.0	-.020	12.0	2.8	-.020	-.020
	80	1	-.060	-.020	-.10	8.0	-.0010	1.4	.10	890.0	5.7	340.0	-.020	47.0	3.0	-.020	-.020
WS06	79	4	-.020	-.020	17.00	2.0	-.0010	1.2	-.10	890.0	5.3	420.0	-.020	13.0	-1.0	-.020	-.020
	80	1	-.010	-.020	17.00	2.0	.0040	2.3	-.10	980.0	5.0	340.0	-.010	42.0	2.0	-.020	-.020
WS07	79	8	-.020	-.020	-.10	-1.0	.0010	1.0	.09	870.0	4.0	320.0	-.020	9.0	12.0	-.020	-.020
	80	1	-.020	-.020	-.10	5.0	-.0010	1.0	.10	810.0	6.0	390.0	-.020	30.0	3.0	-.020	-.020
WS08	79	4	-.050	-.020	16.00	2.0	-.0010	1.2	-.10	860.0	5.1	350.0	-.020	14.0	4.0	-.020	-.020
	80	1	-.020	-.020	26.00	-1.0	.0010	1.2	-.10	880.0	4.9	310.0	-.010	43.0	21.0	-.020	-.020
WS09	79	8	-.020	-.020	-.10	1.0	.0100	2.0	.10	1000.0	5.8	360.0	-.020	18.0	17.0	-.020	-.020
	80	1	-.040	-.020	-.10	1.0	.0090	1.8	.10	960.0	6.7	350.0	-.020	21.0	5.0	-.020	-.020
WS10	79	4	-.010	-.020	26.00	-1.0	.0010	2.1	.10	910.0	6.2	390.0	-.010	57.0	2.0	-.020	-.020
	80	1	-.020	-.020	1.0	1.0	.0200	1.7	.10	1000.0	6.2	370.0	-.020	16.0	5.6	-.020	-.020
WS11	79	8	-.020	-.020	-.10	8.0	.0060	1.7	.10	1000.0	7.4	420.0	-.020	29.0	5.0	-.020	-.020
	80	1	-.070	-.020	12.00	2.0	-.0010	1.8	.10	950.0	7.7	410.0	-.020	18.0	20.0	-.020	-.020
WS12	79	4	-.010	-.020	12.00	3.0	.0010	1.8	.10	1000.0	6.6	370.0	-.010	48.0	2.0	-.020	-.020
	80	1	-.020	-.020	-.10	2.0	-.0010	2.0	.10	960.0	5.0	350.0	-.020	17.0	45.0	-.020	-.020
WS13	79	8	-.030	-.020	-.10	4.0	-.0010	1.8	.10	1000.0	7.3	440.0	-.020	18.0	3.0	-.020	-.020
	80	1	-.040	-.020	23.00	2.0	.0070	1.6	.10	940.0	6.5	410.0	-.020	34.0	-1.0	-.020	-.020
WS14	79	4	-.010	-.020	23.00	1.0	-.0010	1.7	.10	1000.0	6.0	330.0	-.010	82.0	-1.0	-.020	-.020
	80	1	-.020	-.020	-.10	-1.0	-.0010	1.0	.10	980.0	5.0	336.0	-.020	12.0	4.0	-.020	-.020
WS15	79	8	-.040	-.020	-.10	2.0	.0130	1.1	.10	1000.0	7.1	420.0	-.020	39.0	2.0	-.020	-.020
	80	1	-.050	-.020	-.10	8.0	.0030	1.1	.10	960.0	6.8	410.0	-.020	16.0	-1.0	-.020	-.020

NOTE: - INDICATES LESS THEN

CB-TRACT  
WATER QUALITY PARAMETERS  
SPRINGS AND SEEP  
FOR SAMPLE DATA SHOWN

SPRINGS AND SEEPS	YR	MO	NO (MG/L)	NI (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	PHEN (MG/L)	K (MG/L)	H (MG/L)	TOTAL DISS SOLIDS MG/L	SR (MG/L)	SO4 (MG/L)	CD (MG/L)	CL (MG/L)	COD (MG/L)	CR (MG/L)	CU (MG/L)
W504	80	4	-.010	.020	19.00	-1.0	.0010	1.3	.10	990.0	6.2	330.0	-.010	70.0	-1.0	-.020	-.020
W510	79	8	-.020	.040	-.10	1.0	-.0010	1.0		940.0	4.0	330.0	-.020	13.0	15.0	-.020	-.020
W510	80	1	.040	-.020	-.10	1.0	-.0130	1.2	.10	950.0	6.5	400.0	-.020	14.0	5.0	-.020	-.020
			.040	-.020	-.10	1.0	-.0010	1.3		870.0	6.2	350.0	-.020	15.0	-1.0	-.020	-.020
		4	-.010	.020	12.00	-1.0	.0030	3.0	.10	970.0	2.0	290.0	-.010	47.0	2.0	-.020	-.020
W516	80	4	-.010	-.020	10.00	1.0	-.0010	1.7	.30	950.0	4.6	280.0	-.010	45.0	14.0	-.020	-.020

NOTE: - INDICATES LESS THEN

ALLUVIAL WELLS



### 2.2.2.3 Alluvial Wells

Water quality data for Alluvial Wells is presented in this section. The alluvial aquifer monitoring network is shown in Section 2.2.1.3, Figure 2.2.1.3-1.

Data is presented in this section for the following stations:

<u>Well No.</u>	<u>Computer Code</u>
A-1	WA01
A-2	WA02
A-3	WA03
A-5	WA05
A-6	WA06
A-7	WA07
A-8	WA08
A-9	WA09
A-12	WA12



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CB-TRACI  
WATER QUALITY PARAMETERS  
ALLUVIAL WELLS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	TOTAL ALK (MG/L CaCO <sub>3</sub> )	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO <sub>3</sub> (MG/L)	CU <sub>3</sub> (MG/L)	BOD (MG/L)	B (MG/L)	BH (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
WA01	79	7	500.0	-100	-100	-0.020	.80	430.0	70.0	6.8	.30		280.0	65.0	76.0	5.358
	80	2	600.0	-100	-100	-0.040	.50	600.0	-1.0	-1.0	.30		250.0	76.0	48.0	5.233
		4	600.0	-100	-100	-0.020	-.50	600.0	-1.0		.20		250.0	80.0	33.0	5.166
WA02	79	7	430.0	-100	-100	-0.040	-.50	360.0	60.0		.10		160.0	59.0	54.0	3.584
	80	2	460.0	-100	-100	-0.040	-.50	460.0	-1.0		.10		130.0	68.0	45.0	2.858
		4	470.0	-100	-100	-0.020	-.50	470.0	-1.0	4.0	.10		130.0	71.0	120.0	2.325
WA03	79	7	450.0	-100	-100	-0.040	-.50	380.0	70.0	6.8	.10		140.0	60.0	110.0	2.567
	80	2	480.0	-100	-100	-0.040	-.50	480.0	-1.0		.20		130.0	71.0	71.0	2.311
		4	480.0	-100	-100	-0.040	-.50	480.0	-1.0	2.0	.10		130.0	72.0	170.0	2.106
WA05	80	2	540.0	-100	-100	-0.040	-.50	540.0	-1.0		.10		150.0	64.0	52.0	3.293
		5	470.0	-100	-100	-0.040	-.50	470.0	-1.0	-1.0	.10		150.0	58.0	130.0	2.749
WA06	79	7	520.0	-100	-100	-0.040	-.50	460.0	60.0		.20		170.0	53.0	67.0	3.168
	80	2	540.0	-100	-100	-0.040	-.50	540.0	-1.0		.10		160.0	66.0	48.0	3.120
		5	560.0	-100	-100	-0.300	.70	500.0	60.0	-1.0	.20		160.0	68.0	120.0	2.192
WA07	79	7	310.0	-100	-100	-0.040	-.50	250.0	60.0		.04		130.0	40.0	60.0	3.190
WA08	80	5	410.0	1.500		-0.020	.50	410.0	-1.0	-1.0	-.10		110.0	60.0	150.0	1.019
WA09	80	2	340.0	-100	-100	-0.040	-.50	340.0	-1.0		.10		100.0	57.0	50.0	2.296
		4	380.0	-100	-100	-0.040	-.50	380.0	-1.0	4.0	-.10		110.0	60.0	140.0	1.959
WA12	80	4	470.0	-100	-100	-0.040	-.60	390.0	80.0	3.0	-.10		140.0	84.0	160.0	2.231

NOTE: - INDICATES LESS THAN

CB-TRACT  
WATER QUALITY PARAMETERS  
ALLUVIAL WELLS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	FECAL COLIF. COUNT /100ML	TOTAL COLIF. COUNT /100ML	N KJELD. (MG/L)	HARDNESS (MG/L CaCO <sub>3</sub> )	ALPHA BEI/L PC/L	TOTAL BEI/L PC/L	RADIUM 226 PC/L	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	F (MG/L)	N1 (MG/L)	CH (MG/L)
WA01	79	7														
	80	2	-1.0	7.0	2.0	460.0										
		4			.4	430.0										
						410.0										
WA02	79	7														
	80	2	-1.0	-1.0	3.6	390.0										
		4			1.4	390.0										
						590.0										
WA03	79	7														
	80	2	-1.0	2.0	.8	540.0										
		4			.5	470.0										
						720.0										
WA05	80	2	-1.0	-1.0	.1	390.0		6.0								
		5			.1	560.0										
WA06	79	7														
	80	2	-1.0	-1.0	.1	460.0										
		5			.4	390.0	.1									
						560.0										
WA07	79	7														
					1.9	320.0										
WA08	80	5	-1.0	-1.0	.3	620.0	1.9									
WA09	80	2	-1.0	4.0	2.2	360.0										
		4			.1	600.0										
WA12	80	4	-1.0	-1.0	.1	740.0										

NOTE: - INDICATES LESS THAN

CH-TRACT  
WATER QUALITY PARAMETERS  
ALLUVIAL WELLS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	NO	MG/L	TOTAL DISS SOLIDS (MG/L)	OIL AND GREASE (MG/L)	COD (MG/L)	PHEN (MG/L)	K (MG/L)	CD (MG/L)	CU (MG/L)	SH (MG/L)	SO4 (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	CL (MG/L)	FE (MG/L)
WA01	79	7	7	-.020	1200.0	28.0	10.0	.0020	2.1	-.020	-.020	4.2	440.0	-.020	-.02	.300	22.0	-.50
WA01	80	2	2	-.010	1200.0	16.0	-1.0	.0020	2.0	-.010	-.020	4.4	510.0	-.020	-.05	.300	25.0	-.02
WA01	80	4	4	-.010	1300.0	3.0	2.0	.0020	3.2	-.010	-.020	3.2	420.0	-.020	-.05	-.020	59.0	-.02
WA02	79	7	7	-.020	630.0	13.0	2.1	.0100	1.4	-.020	-.020	9.9	260.0	-.020	-.02	.200	9.3	-.50
WA02	80	2	2	-.010	630.0	15.0	50.0	.0020	1.2	-.010	-.020	11.0	330.0	-.020	-.05	.100	15.0	-.02
WA02	80	4	4	-.010	900.0	34.0	-1.0	.0030	2.7	-.010	-.020	8.6	300.0	-.020	-.05	.080	58.0	-.02
WA03	79	7	7	-.020	1000.0	63.0	10.0	.0500	1.7	-.020	-.020	5.4	350.0	-.020	-.02	-.020	14.0	-.50
WA03	80	2	2	-.010	1000.0	12.0	2.0	.0020	1.5	-.010	-.020	5.7	430.0	-.020	-.05	-.020	26.0	-.02
WA03	80	4	4	-.010	1000.0	15.0	46.0	.0020	2.9	-.010	-.020	6.1	320.0	-.020	-.05	.030	61.0	-.02
WA05	80	2	2	-.020	950.0	7.0	8.0	.0030	4.0	-.010	-.010	4.0	310.0	-.020	-.05	-.040	29.0	-.02
WA05	80	5	5	-.010	990.0	14.0	70.0	-.0010	3.7	-.010	-.020	3.3	320.0	-.020	-.05	-.020	65.0	-.02
WA06	79	7	7	-.020	950.0	6.6	6.2	.0500	1.8	-.020	-.020	3.6	280.0	-.020	-.02	.100	18.0	-.50
WA06	80	2	2	-.010	950.0	4.0	-1.0	.0090	2.8	-.010	-.030	4.7	350.0	-.020	-.05	.100	20.0	-.02
WA06	80	5	5	.020	990.0	2.0	35.0	-.0010	2.8	-.010	-.020	3.1	260.0	-.020	-.05	.080	57.0	-.02
WA07	79	7	7	-.020	15.0	15.0	8.6	.0300	1.2	-.020	-.020	4.2	250.0	-.020	.02	-.020	14.0	-.50
WA08	80	5	5	-.010	900.0	21.0	60.0	-.0010	3.2	-.100	-.020	3.3	350.0	-.020	-.05	-.020	67.0	-.02
WA09	80	2	2	-.010	820.0	2.0	-1.0	-.0010	2.6	-.010	-.010	4.7	350.0	-.020	-.05	-.020	14.0	-.02
WA09	80	4	4	-.010	850.0	10.0	-1.0	.0010	2.4	-.010	-.020	4.4	310.0	-.020	-.05	-.020	62.0	-.02
WA12	80	4	4	-.010	1200.0	26.0	37.0	-.0010	3.0	-.010	-.020	5.9	430.0	-.020	-.05	-.020	55.0	-.02

NOTE: - INDICATES LESS THEN

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UPPER AQUIFER  
WELLS



#### 2.2.2.4 Upper Aquifer Wells

This section presents water quality data for the Upper Aquifer Wells. The deep well monitoring network is shown in Figure 2.2.1.4-1.

Data is presented in this section for the following stations:

<u>Well No.</u>	<u>Computer Code</u>
CB-2	WX02
CB-4	WX04
SG-1-2	WX12
SG-17-2	WX17
SG-18A	WX18
SG-19	WX19
SG-21	WX21
AT-1C-3	WX44
SG-11-3	WX55
SG-6-3	WX63
SG-9-2	WX92

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CR-TRACT  
WATER QUALITY PARAMETERS  
UPPER AQUIFERS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	TOTAL ALK (MG/L CACO <sub>3</sub> )	AL (MG/L)	AMMONIA AS N (MG/L)	AS (MG/L)	BA (MG/L)	HCO <sub>3</sub> (MG/L CACO <sub>3</sub> )	CO <sub>3</sub> (MG/L CACO <sub>3</sub> )	BOD (MG/L)	COD (MG/L)	BH (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
W402	79	12	500.0	-0.100	-0.040	-0.020	-0.50	380.0	120.0	6.6	13.0	-0.100	370.0	4.7	7.6	25.839
W404	79	12	310.0	-0.100	.600	-0.020	-0.50	250.0	60.0	6.6	6.0	-0.100	110.0	19.0	21.0	4.189
W412	79	12	500.0	-0.100	.700	-0.020	-0.50	410.0	90.0	67.0	6.0	-0.100	240.0	27.0	17.0	8.432
W417	79	12	750.0	-0.100	1.300	-0.020	-0.50	620.0	130.0	74.0	2.0	-0.100	380.0	2.9	5.2	33.120
W418	79	12	400.0	-0.100	-0.040	-0.020	-0.50	300.0	100.0	1.4	4.0	-0.100	140.0	14.0	4.6	7.334
W419	79	12	1400.0 400.0	-0.100 -0.100	2.200 1.200	-0.020 -0.020	3.20 3.40	1200.0 330.0	200.0 60.0	14.0 2.0	2.0 57.0	-0.100 -0.100	700.0 730.0	2.8 2.7	6.7 6.4	57.286 61.008
W421	79	12	390.0	-0.100	.200	-0.020	-0.50	310.0	80.0	2.0	2.0	-0.100	160.0	27.0	25.0	5.287
W444	79	12	470.0	-0.100	.200	-0.020	1.40	350.0	120.0	13.0	23.0	-0.100	220.0	44.0	47.0	5.543
W455	79	12	600.0	.100	.200	.040	1.30	470.0	130.0	8.0	10.0	-0.100	280.0	5.0	6.1	20.363
W463	79	12	600.0	-0.100	1.100	-0.020	-0.50	340.0	260.0	19.0	17.0	-0.100	260.0	1.5	3.4	29.537
W492	79	12	610.0	-0.100	.200	-0.020	1.00	610.0	-1.0	2.4	42.0	-0.100	210.0	120.0	78.0	3.484

NOTE: - INDICATES LESS THEN



CH-TRACI  
WATER QUALITY PARAMETERS  
UPPER AQUIFERS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	N KJELD. (MG/L)	TOTAL ALPHA PCI/L	TOTAL RADIUM 226 PCI/L	HARDNESS (MG/L CaCO3)	HG (MG/L)	SE (MG/L)	AG (MG/L)	CO (MG/L)	H (MG/L)	ZN (MG/L)	PH (MG/L)	F (MG/L)	CL (MG/L)	CR (MG/L)
W102	79	12	1.1	4.6	57.0	1.4	39.0	-.02000	.030	-.010	-.020	.10	-.020	.90	5.2	-.020
W104	79	12	.8	.8	6.0		130.0	-.02000	-.020	-.020	-.020	.10	-.020	.40	16.0	-.020
W112	79	12	.3	1.5			150.0	-.02000	-.020	-.010	-.020	.30	-.020	9.80	3.2	-.020
W117	79	12	.7	12.0	6.0		25.0	-.02000	-.020	-.010	-.020	1.30	-.020	19.00	2.0	-.020
W118	79	12	2.2	4.5	28.0	1.7	69.0	-.02000	.020	-.010	-.020	1.10	-.020	5.90	4.2	-.020
W119	79	12	1.4	2.3	3.0		28.0	-.02000	-.020	-.010	-.020	1.70	-.020	23.00	1.6	-.020
			4.2	6.0	10.0		27.0	-.02000	-.020	-.010	-.020	1.30	-.020	23.00	1.8	-.020
W121	79	12	.3				170.0		-.020	-.020	-.020	.20	-.020	7.20	2.8	-.020
W144	79	12	.8	12.0	58.0	.3	300.0	-.02000	.040	-.010	-.020	.20	-.020	4.40	4.6	-.020
W155	79	12	.3	6.0	6.0		36.0	-.02000	-.020	-.010	-.020	.50	-.020	18.00	8.8	-.020
W153	79	12	.6	12.0	11.0		15.0	-.02000	.040	-.010	-.020	.60	-.020	16.00	4.0	-.020
W162	79	12	.3				690.0		-.020	-.020	-.020	.20	-.020	.40	3.6	-.020

NOTE: - INDICATES LESS THAN

CH-TRACT  
WATER QUALITY PARAMETERS  
UPPER AQUIFERS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	MO	NO <sub>3</sub>	OIL AND GREASE	DOC	PHEN	K	CU	TOTAL DISS SOLIDS	SR	SO <sub>4</sub>	LI	MN	FE
				(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
WX002	79	12		59.00	7.0	5.1	.0290	4.0	-.020	1000.0	1.9	390.0	.07	.020	.02
WX004	79	12		120.00	1.0	7.1	.0050	.5	-.020	480.0	6.3	180.0	-.05	.060	.08
WX12	79	12		25.00	1.0	1.0	-.0010	.6	-.020	800.0	7.7	120.0	-.05	.080	-.02
WX17	79	12		30.00	1.0	-1.0	.0300	3.1	-.020	980.0	1.1	-5.0	-.05	.030	-.02
WX18	79	12		16.00	2.0	2.0	.0010	.4	-.020	430.0	3.4	6.0	-.05	-.020	-.02
WX19	79	12		5.00	15.0	10.0	-.0010	1.2	-.020	1800.0	1.8	8.0	.08	-.020	-.02
				-.10	7.0	3.2	.0230	1.0	-.020	1800.0	1.7	6.0	.07	-.020	-.02
WX21	79	12		-.10	5.0		-.0010	.3	-.020	670.0	11.0	150.0	-.05	.020	-.02
WX44	79	12		100.00	20.0	4.1	.0140	3.1	-.020	940.0	9.4	310.0	.06	.100	.02
WX55	79	12		.10	4.0	16.4	-.0010	4.0	-.020	640.0	3.2	6.0	.05	.020	.03
WX63	79	12		75.00	14.0	3.0	.0160	1.6	-.020	750.0	.6	5.0	.05	-.020	-.02
WX92	79	12		420.00	2.0		.0160	3.0	-.020	1400.0	8.5	620.0	.08	.400	.90

NOTE: - INDICATES LESS THAN

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LOWER AQUIFER  
WELLS





#### 2.2.2.5 Lower Aquifer Wells

Water quality data for Lower Aquifer Wells are presented in this section. The deep well monitoring network is shown in Figure 2.2.1.4-1.

Data is presented in this section for the following stations:

<u>Well No.</u>	<u>Computer Code</u>
SG-10R	WY10
SG-1-1	WY12
SG-17-1R	WY17
AT-1C-1	WY45
AT-1C-2	WY46
SG-11-1R	WY52
SG-11-2	WY54
SG-6-2	WY62
SG-8R	WY81
SG-9-1	WY91

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CH-IRACI  
WATER QUALITY PARAMETERS  
LOWER AQUIFERS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	TOTAL ALK		AMMONIA		AS	HA	HCO <sub>3</sub>		RSD	COD	BR	NA	MG	CA	SODIUM ABSORPTION RATIO (ME/L)
			(MG/L)	(MG/L)	AS N	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
WY01	79	12	2000.0	.100	3.000	-.020	3.90	2400.0	180.0	50.0	29.0	2.3	5.0	129.992			
WY12	79	12	3500.0	-.100	14.000	.160	1.60	3400.0	130.0	21.0	27.0	5.5	6.8	131.372			
WY17	79	12	1700.0	-.100	8.300	-.020	5.70	1700.0	-1.0	.5	37.0	4.8	6.8	64.617			
WY45	79	12	730.0	-.100	1.000	-.020	2.00	490.0	240.0	23.0	5.2	1.8	3.6	29.008			
WY46	79	12	620.0	-.100	.300	-.020	2.40	470.0	150.0	17.0	26.0	2.6	4.7	22.045			
WY52	79	12	1400.0	-.100	5.500	-.020	5.00	1300.0	150.0	11.0	9.0	3.0	6.8	52.214			
WY54	79	12	600.0	-.100	1.500	-.020	1.60	460.0	140.0	22.0	3.0	85.0	45.0	4.253			
WY62	79	12	220.0	-.100	.030	-.020	.50	120.0	100.0	24.0	66.0	56.0	9.6	4.369			
WY81	79	12	990.0	-.100	1.000	-.020	3.90	750.0	240.0	13.0	12.0	2.3	4.1	41.167			
WY91	79	12	1200.0	-.100	5.000	-.020	2.00	1100.0	130.0	1.4	4.0	2.5	4.9	64.168			

NOTE: - INDICATES LESS THEN

CH-TRACT  
WATER QUALITY PARAMETERS  
LOWER AQUIFERS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	DAY	N KJELD. (%G/L)	TOTAL ALPHA PCI/L	TOTAL BETA PCI/L	RADIUM 226 PCI/L	HARDNESS (MG/L CaCO3)	HG (MG/L)	SE (MG/L)	AG (MG/L)	CO (MG/L)	B (MG/L)	ZN (MG/L)	PB (MG/L)	F (MG/L)	CL (MG/L)	CR (MG/L)
WY01	79	12		1.9	6.0	72.0	.4	22.0	-.02000	-.020	-.010	-.020	.60	.020	.040	31.00	2.0	.040
WY12	79	12		9.0	3.7	1.0		40.0	-.02000	-.020	-.010	-.020	15.00	-.020	-.020	32.00	7.4	.040
WY17	79	12		4.9	4.5	43.0	.6	37.0	-.02000	-.020	-.010	.020	5.50	.100	-.020	21.00	4.0	.040
WY45	79	12		1.3	26.0	148.0	3.0	16.0	-.02000	.020	-.010	-.020	.70	-.020	-.020	20.00	2.0	-.020
WY46	79	12		.1	24.0	63.0	2.2	22.0	-.02000	.020	-.010	-.020	.70	-.020	.020	18.00	2.4	-.020
WY52	79	12		5.0	5.3	22.0		29.0	-.02000	-.020	-.010	-.020	9.00	-.020	-.020	20.00	20.0	.020
WY54	79	12		3.0	1.5	3.0		460.0	-.02000	-.020	-.020	.020	.40	.300	.040	2.50	3.6	.020
WY62	79	12		1.1	4.5	2.0		250.0	-.02000	.240	-.010	-.020	.20	-.020	-.020	.30	100.0	-.020
WY41	79	12		.8	6.0	9.0		20.0	-.02000	-.020	-.010	-.020	.70	-.020	-.020	23.00	1.8	-.020
WY91	79	12		5.6				22.0			-.020	-.020	8.40	.040	-.020	21.00	7.6	-.020

NOTE: - INDICATES LESS THEN

CB-TRACT  
WATER QUALITY PARAMETERS  
LOWER AQUIFERS  
FOR SAMPLE DATA SHOWN

WELL	YR	MO	NO (MG/L)	NI (MG/L)	NO3 (MG/L)	OIL AND GREASE (MG/L)	DOC (MG/L)	PHEN (MG/L)	K (MG/L)	CU (MG/L)	SR (MG/L)	SO4 (MG/L)	LI (MG/L)	MN (MG/L)	TOTAL DISS. SOLIDS (MG/L)	FE (MG/L)
WY01	79	12	-.020	-.020	58.00	2.0	6.0	.0190	4.2	-.020	.7	-5.0	-.05	.070	3200.0	.02
WY12	79	12	.500	.020	58.00	5.0	337.0	.1800	13.0	-.020	.9	10.0	2.10	.050	500.0	-.02
WY17	79	12	-.020	-.020	8.00	12.0	10.0	.0170	6.6	-.020	1.3	9.0	.70	.040	2380.0	-.02
WY45	79	12	-.020	-.020	15.00	2.0	3.6	.0080	10.0	-.020	1.2	-5.0	-.05	-.020	790.0	-.02
WY46	79	12	.080	-.020	-.10	2.0	3.3	.0020	9.9	-.020	2.1	-5.0	.05	-.020	720.0	-.02
WY52	79	12	.030	-.020	18.00	10.0	8.6	-.0010	3.7	-.020	1.7	7.0	1.40	.040	1900.0	-.02
WY54	79	12	.030	-.020	41.00	4.0	21.4	.0100	3.9	.030	6.0	450.0	.06	.200	1100.0	1.60
WY62	79	12	.090	-.020	200.00	11.0	5.2	.0120	1.2	-.020	.9	290.0	.07	.050	850.0	-.02
WYH1	79	12	.080	-.020	.10	4.0	8.9	-.0010	.9	-.020	2.3	6.0	.08	-.020	1100.0	-.02
WY91	79	12	-.020	-.020	12.00	6.0		.0120	4.5	-.020	2.1	6.0	1.60	.040	1720.0	-.02

NOTE: - INDICATES LESS THEN



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#### 2.2.2.6 Impoundments/Discharge/NPDES

This section presents data for NPDES water quality samples. Water quality samples for weekly and monthly analysis are shown in Tables 2.2.2.6-1 and 2.2.2.6-2 respectively.

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TABLE 2.2.2.6-1  
NPDES CB-TRACI  
WATER QUALITY SAMPLES  
WEEKLY ANALYSIS

LOC	YR	MO	DAY	FLOW (GPM)	TOTAL SUSPEND SOLIDS (MG/L)	TOTAL DISSOLVED SOLIDS (MG/L)	TOTAL F (MG/L)	TOTAL B (MG/L)	AMMONIA AS N (MG/L)	TOTAL PHENOL (MG/L)	AL (MG/L)	TOTAL FE (MG/L)	OIL AND GREASE (MG/L)	PH
WN40	79	7	31	20.0	910.0	2.10	-.10	.98		-.001	-.1	.02	-1	
			31	-1.0	940.0	2.70	.20			-.001	-.1	.12	2	
			15	-1.0	880.0	1.60	.19				.6	1.30	2	
			22	-1.0	820.0	1.50	.10	.83		.003	.5	.03	-1	
			27	-1.0	990.0	1.30	.10	.75		-.001	.4	.90	-1	
	9	9	29	-1.0	870.0	1.10	.10	.95		-.001	.4	.50	-1	
			31	-1.0	920.0	1.20	.10	1.64		-.001	.6	1.00	4	
			5	450.0	3800.0	1.30	.20	.94		.003	-.1	.03	-1	8.80
			6	450.0	840.0	1.40	.20	.85		.003	.1	.20	1	8.25
			13	625.0	720.0	3.20	.10	.81		.003	.4	.20	-1	8.05
	10	10	18	347.0	860.0	1.70	.10	3.30		-.001	.2	.70	5	8.80
			24	170.0	800.0	1.40	.13	3.20		-.001	-.1	.30	27	7.90
			28	220.0	800.0	1.80	.07	3.20		.004	-.1	.20	21	8.20
			1	210.0	920.0	3.80	.20	1.80		-.006	.6	1.00	6	8.07
			8	258.0	850.0	2.60	.00	1.00		-.001	.7	.90	0	8.20
	11	11	17	42.0	890.0	3.10	.00	1.50		.020	.8	.70	15	7.50
			26	316.0	810.0	2.70	.00	1.60		.050	.8	.20	10	8.70
			30	720.0	810.0	2.70	.00	1.60		.050	.8	.20	10	8.70
			5	620.0	870.0	2.50	.30	1.62		.004	1.2	.20	-1	8.40
			8	720.0	770.0	2.50	.10	1.57		.003	1.1	.08	-1	8.50
	12	12	13	5.0	920.0	3.40	.20	2.50		.002	1.6	.60	3	7.50
			21	45.0	830.0	4.00	.10	2.00		.020	1.3	.20	8	8.05
			24	150.0	890.0	2.80	.30	1.40		.020	1.1	.30	4	8.21
			28	890.0	860.0	5.60	.30	2.10		.020	.5	.30	2	8.31
			30	65.0	850.0	5.80	.20	3.30		.020	1.4	.20	2	8.60
	12	12	7	250.0	900.0	6.70	.20	5.80		-.001	1.5	.70	11	8.24
			14	38.0	910.0	4.40	.20	2.20		.010	1.9	.70	2	8.80
			18	350.0	910.0	4.40	.20	2.20		.010	1.9	.70	2	6.84
			19	320.0	970.0	4.10	.20	1.70		.001	.8	.04	2	8.20
			26	17.0	950.0	5.10	.20	1.60		-.001	.5	.20	2	7.12
80	1	1	2	5.0	910.0	5.70	.20	1.40		-.001	.5	.20	2	8.00
			7	10.0	920.0	7.00	.20	1.60		.017	1.4	.20	1	8.34
			10	140.0	920.0	7.00	.20	1.60		-.001	.6	.30	1	8.35
			18	53.0	990.0	8.40	.30	2.60		.009	1.0	1.50	1	8.86
			24	61.0	960.0	7.40	.30	2.70		.009	1.0	1.20	1	9.10
	2	2	31	160.0	900.0	6.80	.30	2.30		.010	3.0	2.60	1	8.36
			8	62.0	1100.0	8.20	.10	2.20		.004	1.4	1.90	-1	7.60
			15	46.0	1200.0	9.00	.10	1.60		.003	.4	.02	1	7.80
			21	40.0	1100.0	9.00	.20	2.10		.006	.4	.04	3	8.60
			28	40.0	950.0	5.70	.20	1.60		.001	.5	.20	2	8.00

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6-1 (Continued)

CH-TRACI  
NPDES WATER QUALITY SAMPLES  
WEEKLY ANALYSIS

LOC	YR	MO	DAY	FLOW (GPM)	TOTAL SUSPENDED SOLIDS (MG/L)	TOTAL DISSOLVED SOLIDS (MG/L)	TOTAL F (MG/L)	TOTAL B (MG/L)	AMMONIA AS N (MG/L)	TOTAL PHENOL (MG/L)	AL (MG/L)	TOTAL FE (MG/L)	OIL AND GREASE (MG/L)	PH
4N40	80	2	24	278.0	53.0	1000.0	10.00	.10	2.60	.004	.2	.08	8	8.80
		29	4		62.0	1100.0	9.80	-.10	3.10	.004	.4	.10	7	9.40
		3	12		160.0	1200.0	12.00	.10	2.40	.001	.3	.90	9	8.90
			13		103.0	1200.0	14.00	.10	2.00	.001	.2	1.00	4	8.70
			21		220.0	1000.0	13.00	-.10	3.00	.001	.5	4.00	3	7.60
			26		209.0	1200.0	13.00	-.10	2.40	.001	.4	1.70	8	8.00
		4	2		292.0	1200.0	14.00	-.10	1.90	.001	.5	2.00	-1	8.72
			9		132.0	1600.0	13.00	-.10	2.40	.001	.8	1.60	8	6.95
			17		95.0	1600.0	14.00	.20	1.70	.001	.5	1.00	1	6.20
			24		53.0	1300.0	17.00	-.10	1.60	.007	.2	.30	16	7.32
			28		222.0	1100.0	15.00	.60	1.50	.003	.3	1.00	6	8.25
		5	7		150.0	1100.0	15.00	.60	1.50	.010	.4	.90	1	8.85
			14		473.0	970.0	15.00	.40	1.70	.001	.4	1.30	7	7.70
			29		23.0	1000.0	13.00	.60	1.20	.001	.1	.20	-1	7.97

NOTE: - INDICATES LESS THAN

TABLE 2.2.2.6-2  
CB-TRACT  
NPDES WATER QUALITY SAMPLES  
MONTHLY ANALYSIS

LOC	YR	MO	TOTAL CD (MG/L)	TOTAL CU (MG/L)	TOTAL HG (MG/L)	TOTAL AG (MG/L)	TOTAL ZN (MG/L)
WN40	79	7	-.02	.02	-.00020	-.01	.03
		8	-.02	-.02	-.00020	-.01	.03
		9	-.02	-.02	-.00020	-.01	-.02
		10	-.02	-.02	-.00200	-.01	-.02
		11	-.02	-.02	-.00004	-.01	.20
		12	-.02	-.02	-.00004	-.01	.08
	80	1	-.03	-.04	-.00020	-.01	.01
		2	-.01	-.02	.00005	-.01	.10
		3	-.01	.04	.00400	-.01	.10
		4	-.01	-.01	-.00020	-.01	.40
		5	-.01	-.01	-.00020	-.01	.04

NOTE: - INDICATES LESS THAN

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SHALE DUMPS





#### 2.2.2.7 Shale Dumps

Shaft sinking commenced in 1979. No significant amount of shale was brought to the surface during this reporting period as a result of shaft sinking activity.

A seepage monitoring system was constructed and put into operation in May, 1980.

The water samples are currently in for analysis, therefore, there is not any data to be presented at this time.

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#### 2.2.2.8 Sediments

Suspended sediment and suspended sediment discharge data for the water year October, 1977 to September, 1978 were presented in Development Monitoring Report #2. No additional data have been received for this report period.

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SUPPLEMENTAL  
WATER DATA



### 2.2.3 Supplemental Water Data

Data presented in this section are as follows:

<u>Table/Figure No.</u>	<u>Description</u>	<u>Page No.</u>
Table 2.2.3-1	Water Levels in Composite Wells Required by Water Augmentation Plan	I-367
Table 2.2.3-2	Water Levels for Wells Sampled Weekly	I-368
Table 2.2.3-3	Water Quality Parameters for Shaft Data	I-369

Data for probe holes and grout holes are presented in Table 2.2.3-3. A description of probe holes and grout holes is in the following paragraph.

Probe holes are long drill holes (say 100 to 200 ft.) drilled ahead of the face of a sinking shaft or advancing tunnel, of small diameter (say <3"). They are drilled in order to tap any water which may be contained in the rock strata, through which the shaft or tunnel is to be driven. It may be sufficient to drill these holes and allow the water to drain, in the case of local, isolated water. However, it is usual to inject cement or chemical grouts into the probe holes to seal off the water, in advance of the mining. Normally, the original probe holes, being limited in number, are supplemented by further similarly drilled holes, which are purely grout holes. As a final check, one or more probe holes are drilled after grouting, to check its effect, before mining through the water-logged strata is actually carried out.

The #8 grout cover drilling pattern and description are show in Figures 5 and 6 of Nick Stellavato's Report for the Period April 1 through May 31, 1980 located in Section 5.0 (Special Reports).

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TABLE 2.2.3-1

CB-TRACT  
WATER LEVELS IN COMPOSITE WELLS  
REQUIRED BY WATER AUGMENTATION PLAN  
FOR SAMPLE DATE SHOWN

		WELL ID - MEASURING POINT ELEVATION (FT)				
		WV01	WV02	WV03	WV04	WV05
		6411	6490	6729	0	7420
YR	MO	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)
79	8		FLWING	FLWING		
	9	6285			FLWING	7354
	10	6286	FLWING	FLWING	FLWING	7354
	11	6286	FLWING	FLWING	FLWING	7354
	12	6286	FLWING	FLWING	FLWING	7353
80	1	6334	FLWING	FLWING	FLWING	7353
	2	6334	FLWING	FLWING	FLWING	7352
	3	6334	FLWING	FLWING	FLWING	INACCS
	4	6333	FLWING	FLWING	FLWING	7353
	5	6334	FLWING	FLWING	FLWING	7358

PLUGGD = WELL PLUGGED  
 DRY = WELL DRY  
 FLWING = WELL FLOWING  
 INACCS = WELL INACCESSABLE

TABLE 2.2.3-2

CH-TRACT  
WATER LEVELS IN WELLS SAMPLED WEEKLY  
FOR SAMPLE DATE SHOWN

WELL ID - M P ELEV (FT)						
WX20		WX32	WX33	WY01		
0358		6830	6707	6763		
YR	MO	DAY	DEPTH (FT)	DEPTH (FT)	DEPTH (FT)	
79	1	0	FLWING	6470	6379	6404
	2	0	FLWING	6470	6380	6402
	3	0	FLWING	6471	6374	6400
		9		6470	6385	
		12		6470	6380	
		13		6469	6380	
		14		6469	6379	
		15		6469	6378	
		16		6470	6377	
		19		6470	6375	
	20		6470	6375		
	21		6471	6374		
	23		6472	6375		
	26		6463	6374		
	27		6471	6375		
	28		6470			
	29		6470	6380	6403	
	4	0	6471	6365	6403	
	19		6469	6378		
	25		6471	6365		
6	11		6475	6382	6403	
	14		6476	6341	6402	
	28		6473	6336	6403	
	7	2	6355			
	6		6466	6328	6401	
	13		6463	6325		
	17				6401	
	19				6401	
	20			6318		
	23		6459		NS	
	8	3	6455	6316	NS	
	10	6350			NS	
	19	6352	6442	6366		
	21		6469	6295	6399	

PLUGGED= WELL PLUGGED  
DRY = WELL DRY  
FLWING= WELL FLOWING  
INACCS= WELL INACCESSIBLE  
NS = WELL NOT SAMPLED





TABLE 2.2.3-2 (continued)  
 CB-TRACT  
 WATER LEVELS IN WELLS SAMPLED WEEKLY  
 FOR SAMPLE DATE SHOWN

		WELL ID - M P ELEV (FT)			
		WX32	WX33	WY01	
		6358	6830	6707	6763
YR	MO	DY	DEPTH		DEPTH
			(FT)	(FT)	(FT)
-----					
80	3	21			6381
		25			6379
	4	3	6308		6379
		10			6370
		22	6299		
		23			6363
5	1				6362
	7		6293	6208	
	8		6294	6195	
	9				6361
	12		6292	6211	
	13		6290	6211	
	15		6283	6194	
	16		6285	6217	
	19	6297	6279	6212	
	21		6279		6350
	23		6264		
	27				6347

PLUGGED= WELL PLUGGED  
 DRY = WELL DRY  
 FLOWING= WELL FLOWING  
 INACCS= WELL INACCESSIBLE  
 NS = WELL NOT SAMPLED

TABLE 2.2.3-3  
CB-TRACT  
WATER QUALITY PARAMETERS  
FOR SHAFT DATA

SHAFT	YR	MO	DY	GROUT	PHONE HOLE	DEPTH FT.	ELEV. FT.	FLOW GPM	TEMP DEGC	PH
WZ01	79	10	2	6	11	18	5777			
			3	6	2	50	5745	30		
			8	6	3	40	5755	60		
			9	6	6	40	5755	60		
			10	6	3	80	5715	30		
			17	6	3	125	5670			
			19	6	6	140	5655	300		
			29	7	6	40	5636	55		
80	1	12	7	7	1	40	5636			
			25	7	8	60	5616			
	2	13	7	7	8	108	5568	20		
			29	7	C	110	5566	175		
	4	2	8	8	C	48	5552	300	18.0	8.13
		14	8	8	D	60	5541	100	6.0	9.12
		16	8	8	B	68	5533	500	16.0	8.70
		18	8	8	B	80	5521	300		
		29	8	8	A	90	5511	500	17.0	8.31
5	5	5	8	8	C	148	5453	600	15.0	8.50
			8	8	C	80	5521	300	10.0	8.80
WZ02	80	3	24		1	25	5710		10.0	8.10
WZ03	80	1	12		5	20	5933			
					5	150	5803			

NOTE: - INDICATES LESS THEN

TABLE 2.2.3-3 (continued)

CB-TRACT WATER QUALITY PARAMETERS FOR SHAFT DATA											
SHAFT	YR	MO	DY	CO (MG/L)	V (MG/L)	SI (MG/L)	TURB NTU	SUSPENDED SOLIDS (MG/L)	DOC (MG/L)	SPEC. COND. U MHOS	DISSOLVED OXYGEN PPM
WZ01	79	10	2					17.0			
			3					41.0			
			8					70.0			
			9					120.0			
			10					770.0			
			17					680.0			
			19					170.0			
			29					61.0			
			12					8.0			
			25					-1.0			
			13					12.0			8.0
			29					57.0			2.0
			4					3.0			5.0
			2					13.0			1905.0
			14					8.0			5.0
16					100.0			12.0			
18					30.0			2.0			
29					1.0			7.0			
5					-1.0			4.0			
					15.0			2.0			
								3.0			
								2050.0			
								2200.0			
								1800.0			

NOTE: - INDICATES LESS THEN

TABLE 2.2.3-3 (continued)

CB-TRACT  
WATER QUALITY PARAMETERS  
FOR SHAFT DATA

SHAFT	YR	MO	DAY	MO	NI	NO3	OIL AND GREASE	PHEN	K	B	TOTAL DISS SOLIDS	SR	SO4	CD	CL	COD	CR	CU
(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)	(MG/L)
WZ01	79	10	2	-.020			7.0	-.0010			1300.0							
			3	-.020			10.0	-.0010			1300.0							
			H	-.020			4.0	-.0100			1200.0							
			9	-.020			2.0	-.0010		.60	1100.0							
			10	-.020			2.0	-.0010		.70	1300.0							
			17	-.020			2.0	-.0100		.80	1300.0							
			19	.000			11.0	-.0030		.80	1300.0							
			29	.040			2.0	-.0010	1.2	.40	1200.0		480.0		11.0			
	80	1	12	.080			2.0	-.0010	1.2	.80	1300.0		24.0		22.0			
				.040			5.0	-.0010	1.1	.70	1300.0		8.0		7.2			
		25		.020			17.0	-.0010	2.7	.60	1400.0		77.0		12.0			
		2	13	.010			4.0	-.0010	9.0	.30	1300.0		110.0		20.0			
		29		-.020			8.0	-.0010	3.4	.40	1300.0		24.0		23.0			
		4	2	-.010			12.0	-.0010	1.6	.40	1300.0		-5.0		48.0	14.0		
		14		.010			1.0	-.0010	15.0	.50	1300.0		110.0		48.0			
		16		-.010			14.0	-.0010	7.9	.60	1400.0		49.0		47.0			
		18		.010			4.0	-.0010	25.0	.50	1400.0		200.0		50.0			
		29		-.010			12.0	-.0010	11.0	.60	1400.0		64.0		65.0			
		5	5	.010			1.0	-.0010	15.0	1.00	1600.0		180.0		62.0			
				.010			1.0	-.0010	25.0	.60	1400.0		110.0		49.0			
WZ02	80	3	24	.070		74.00	2.0	.0080	4.5	-.10	4700.0		-5.0		30.0			
WZ03	80	1	12	-.020		-.10	2.0	-.0010	.4	.40	580.0		18.0		17.0			
				-.020		-.10	5.0	-.0010	.4	.20	560.0		18.0		18.0			

NOTE: - INDICATES LESS THEN

TABLE 2.2.3-3 (continued)

CB-TRACI  
WATER QUALITY PARAMETERS  
FOR SHAFT DATA

SHAFT	YR	MO	DAY	FECAL COLIF. COLONY /100ML	TOTAL COLIF. COLONY /100ML	N KJELD. (MG/L)	HG (MG/L)	SE (MG/L)	AG (MG/L)	ZN (MG/L)	PB (MG/L)	LI (MG/L)	MN (MG/L)	FE (MG/L)	F (MG/L)
WZ01	79	10	2			1.1					-.020		-.020	.50	17.00
			3			2.2							-.020	.40	.70
			8			2.1							-.020	-.02	16.00
			9			2.2							-.020	-.02	12.00
			10			1.4					.040		.300	5.60	1.70
			17			1.2					-.020		-.020	-.02	15.00
			19								-.020		-.020	-.02	15.00
			29								-.020		-.020	-.02	19.00
	80	1	12								-.020		-.020	-.02	20.00
			25								-.020		-.020	-.02	19.00
		2	13			1.8					-.020		-.020	-.02	15.00
		29									-.020		-.020	-.02	16.00
		4	2								-.020		-.020	-.02	18.00
		14									-.020		-.020	.06	19.00
		16									-.020		-.020	.03	16.00
		18									-.020		-.020	-.02	19.00
		29									-.020		-.020	-.02	18.00
		5	5			1.4					-.020		-.020	-.02	19.00
											-.020		-.020	.02	18.00
											-.020		-.020	.02	17.00
WZ02	80	3	24								-.020		-.020	.10	25.00
WZ03	80	1	12								-.020		-.020	-.02	12.00
											-.020		-.020	-.02	11.00

NOTE: - INDICATES LESS THEN



TABLE 2.2.2.6-1 (continued)

 CB-TRACT  
 WATER QUALITY PARAMETERS  
 FOR SHAFT OATA

SHAFT	YR	MO	DY	TOTAL		AMMONIA		AS (MG/L)	BA (MG/L)	HCO3		CO3 (MG/L)	B00 (MG/L)	BR (MG/L)	HARDNESS (MG/L)	NA (MG/L)	MG (MG/L)	CA (MG/L)	SODIUM ABSORPTION RATIO (ME/L)
				ALK (MG/L)	CAC03	AL (MG/L)	AS N (MG/L)			(MG/L)	CAC03								
WZ01	79	10	2					-.020											
			3				1.200	-.020											
			8				1.400	-.020											
			9					-.020											
			10					-.020											
			17					-.020											
			19					.020											
			29	1100.0		3.700	1.000	-.020		1000.0		100.0				530.0	12.0	8.1	32.534
			80	1100.0		.100	.400	-.020		970.0		130.0				510.0	7.3	6.5	36.997
			12	1100.0		.300	.500	-.020		1000.0		76.0				520.0	7.5	7.2	32.385
			25	110.0		.200	1.000	-.020		950.0		130.0				530.0	14.0	14.0	23.975
			13	980.0		1.300	1.700	-.030		620.0		360.0				470.0	4.7	4.3	37.301
			29	1200.0		.100	1.600	-.020		1000.0		150.0				500.0	7.5	9.3	29.587
			4	1100.0		.500	1.500	-.020		940.0		180.0	-1.0			520.0	5.3	7.2	35.873
			14	1100.0		3.300	1.700	-.020		600.0		500.0				530.0	5.4	4.8	39.443
			16	1200.0		-.200	1.200	-.020		850.0		350.0				540.0	7.4	5.6	35.264
			18	1000.0		.600	1.300	-.020		240.0		760.0				530.0	3.5	3.2	48.749
			29	1300.0		.500	1.100	-.020		990.0		280.0				570.0	11.0	55.0	18.341
			5	1400.0		1.900	1.100	-.020		1000.0		390.0				630.0	12.0	59.0	19.531
			5	1200.0		3.200	1.200	-.020		860.0		320.0				560.0	12.0	53.0	18.064
WZ02	80	3	24	4400.0		-.100	1.300	-.020		3300.0		1100.0				1900.0	2.3	5.1	175.421
WZ03	80	1	12	490.0		-.100	1.200	-.020		410.0		84.0				250.0	3.5	6.5	19.651
				460.0		-.100	.050	-.020		380.0		80.0				230.0	3.3	6.4	18.404

NOTE: - INDICATES LESS THEN

